



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q3756
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	BR-01-190-120225							
Q3756-03	BR-01-190-120225	Water	Vinyl Chloride	25.4		0.26	1.00	ug/L
			Total Voc :			25.4		
			Total Concentration:			25.4		



SAMPLE DATA



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OW-04B-26.5-120225
Lab Sample ID: Q3756-01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/02/25
Date Received: 12/02/25
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/04/25 15:26	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:26	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:26	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:26	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:26	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:26	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:26	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.4			70 (74) - 130 (125)	113%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.7			70 (75) - 130 (124)	93%	SPK: 50		
2037-26-5	Toluene-d8	44.4			70 (86) - 130 (113)	89%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.4			70 (77) - 130 (121)	109%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	244000							
540-36-3	1,4-Difluorobenzene	556000							
3114-55-4	Chlorobenzene-d5	547000							
3855-82-1	1,4-Dichlorobenzene-d4	269000							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: BR-01-190-120225
 Lab Sample ID: Q3756-03
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	25.4		1	0.26	1.00	ug/L	12/04/25 15:06	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:06	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:06	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:06	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:06	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:06	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:06	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.2			70 (74) - 130 (125)	112%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.0			70 (75) - 130 (124)	92%	SPK: 50		
2037-26-5	Toluene-d8	44.0			70 (86) - 130 (113)	88%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.7			70 (77) - 130 (121)	105%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	246000							
540-36-3	1,4-Difluorobenzene	564000							
3114-55-4	Chlorobenzene-d5	564000							
3855-82-1	1,4-Dichlorobenzene-d4	278000							

U = Not Detected

LOQ = Limit of Quantitation

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: MW-04-12-120225
 Lab Sample ID: Q3756-05
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/04/25 15:47	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:47	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:47	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:47	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:47	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:47	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:47	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.2			70 (74) - 130 (125)	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.1			70 (75) - 130 (124)	94%	SPK: 50		
2037-26-5	Toluene-d8	45.7			70 (86) - 130 (113)	91%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.8			70 (77) - 130 (121)	102%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	206000							
540-36-3	1,4-Difluorobenzene	469000							
3114-55-4	Chlorobenzene-d5	455000							
3855-82-1	1,4-Dichlorobenzene-d4	221000							

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: MW-13B-47.5-120225
 Lab Sample ID: Q3756-07
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/04/25 16:07	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 16:07	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 16:07	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 16:07	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 16:07	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 16:07	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 16:07	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.7			70 (74) - 130 (125)	111%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.2			70 (75) - 130 (124)	94%	SPK: 50		
2037-26-5	Toluene-d8	45.2			70 (86) - 130 (113)	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.7			70 (77) - 130 (121)	101%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	206000							
540-36-3	1,4-Difluorobenzene	472000							
3114-55-4	Chlorobenzene-d5	469000							
3855-82-1	1,4-Dichlorobenzene-d4	223000							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: EB01-120225
 Lab Sample ID: Q3756-09
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/03/25 12:52	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 12:52	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 12:52	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 12:52	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 12:52	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 12:52	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 12:52	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.9			70 (74) - 130 (125)	118%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.4			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	46.8			70 (86) - 130 (113)	94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.6			70 (77) - 130 (121)	97%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	174000							
540-36-3	1,4-Difluorobenzene	400000							
3114-55-4	Chlorobenzene-d5	396000							
3855-82-1	1,4-Dichlorobenzene-d4	183000							

U = Not Detected

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: TB01-120225
 Lab Sample ID: Q3756-10
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/03/25 13:12	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 13:12	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 13:12	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 13:12	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 13:12	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 13:12	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 13:12	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	65.5	*		70 (74) - 130 (125)	131%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.8			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	48.2			70 (86) - 130 (113)	96%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.9			70 (77) - 130 (121)	102%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	192000							
540-36-3	1,4-Difluorobenzene	468000							
3114-55-4	Chlorobenzene-d5	465000							
3855-82-1	1,4-Dichlorobenzene-d4	219000							

U = Not Detected

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* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



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Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: TB01-120225RE
Lab Sample ID: Q3756-10RE
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/02/25
Date Received: 12/02/25
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/03/25 16:58	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 16:58	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 16:58	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 16:58	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 16:58	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 16:58	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 16:58	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.6			70 (74) - 130 (125)	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	44.8			70 (75) - 130 (124)	90%	SPK: 50		
2037-26-5	Toluene-d8	42.0			70 (86) - 130 (113)	84%	SPK: 50		
460-00-4	4-Bromofluorobenzene	44.1			70 (77) - 130 (121)	88%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	224000							
540-36-3	1,4-Difluorobenzene	518000							
3114-55-4	Chlorobenzene-d5	519000							
3855-82-1	1,4-Dichlorobenzene-d4	246000							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **Q3756**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3756-01	OW-04B-26.5-120225	1,2-Dichloroethane-d4	50	56.4	113		70 (74)	130 (125)
		Dibromofluoromethane	50	46.7	93		70 (75)	130 (124)
		Toluene-d8	50	44.4	89		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.4	109		70 (77)	130 (121)
Q3756-03	BR-01-190-120225	1,2-Dichloroethane-d4	50	56.2	112		70 (74)	130 (125)
		Dibromofluoromethane	50	46.0	92		70 (75)	130 (124)
		Toluene-d8	50	44.0	88		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.7	105		70 (77)	130 (121)
Q3756-05	MW-04-12-120225	1,2-Dichloroethane-d4	50	55.2	110		70 (74)	130 (125)
		Dibromofluoromethane	50	47.1	94		70 (75)	130 (124)
		Toluene-d8	50	45.7	91		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.8	102		70 (77)	130 (121)
Q3756-07	MW-13B-47.5-120225	1,2-Dichloroethane-d4	50	55.7	111		70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94		70 (75)	130 (124)
		Toluene-d8	50	45.2	90		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.6	101		70 (77)	130 (121)
Q3756-09	EB01-120225	1,2-Dichloroethane-d4	50	58.9	118		70 (74)	130 (125)
		Dibromofluoromethane	50	50.4	101		70 (75)	130 (124)
		Toluene-d8	50	46.8	94		70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.6	97		70 (77)	130 (121)
Q3756-10	TB01-120225	1,2-Dichloroethane-d4	50	65.5	131	*	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104		70 (75)	130 (124)
		Toluene-d8	50	48.2	96		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.9	102		70 (77)	130 (121)
Q3756-10RE	TB01-120225RE	1,2-Dichloroethane-d4	50	54.6	109		70 (74)	130 (125)
		Dibromofluoromethane	50	44.8	90		70 (75)	130 (124)
		Toluene-d8	50	42.0	84		70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.1	88		70 (77)	130 (121)
VN1203WBL01	VN1203WBL01	1,2-Dichloroethane-d4	50	59.5	119		70 (74)	130 (125)
		Dibromofluoromethane	50	50.7	101		70 (75)	130 (124)
		Toluene-d8	50	47.6	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.1	94		70 (77)	130 (121)
VN1203WBS01	VN1203WBS01	1,2-Dichloroethane-d4	50	54.3	109		70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103		70 (75)	130 (124)
		Toluene-d8	50	49.5	99		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.4	99		70 (77)	130 (121)
VN1203WBSD0	VN1203WBSD01	1,2-Dichloroethane-d4	50	54.9	110		70 (74)	130 (125)
		Dibromofluoromethane	50	51.9	104		70 (75)	130 (124)
		Toluene-d8	50	52.0	104		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.2	104		70 (77)	130 (121)
VN1204WBL01	VN1204WBL01	1,2-Dichloroethane-d4	50	61.7	123		70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102		70 (75)	130 (124)
		Toluene-d8	50	46.7	93		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100		70 (77)	130 (121)
VN1204WBS01	VN1204WBS01	1,2-Dichloroethane-d4	50	53.8	108		70 (74)	130 (125)
		Dibromofluoromethane	50	50.7	101		70 (75)	130 (124)
		Toluene-d8	50	51.7	103		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.4	109		70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3756</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VN088419.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1203WBS01	Vinyl chloride	20	19.5	ug/L	98			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.9	ug/L	95			70 (74)	130 (110)	
	1,1-Dichloroethane	20	21.6	ug/L	108			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	20.7	ug/L	104			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70 (80)	130 (108)	
	Benzene	20	20.3	ug/L	102			70 (82)	130 (109)	
	1,2-Dichloroethane	20	22.3	ug/L	112			70 (80)	130 (115)	
	Trichloroethene	20	19.2	ug/L	96			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	21.1	ug/L	106			70 (83)	130 (112)	
	Tetrachloroethene	20	16.5	ug/L	83			70 (67)	130 (123)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3756 **Analytical Method:** SW8260-Low
Client: JACOBS Engineering Group, Inc. **Datafile :** VN088432.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1203WBSD01	Vinyl chloride	20	20.5	ug/L	103	5		70 (65)	130 (117)	20 (19)
	1,1-Dichloroethene	20	21.2	ug/L	106	11		70 (74)	130 (110)	20 (20)
	1,1-Dichloroethane	20	21.6	ug/L	108	0		70 (78)	130 (112)	20 (20)
	cis-1,2-Dichloroethene	20	20.8	ug/L	104	0		70 (77)	130 (110)	20 (20)
	1,1,1-Trichloroethane	20	21.9	ug/L	110	6		70 (80)	130 (108)	20 (20)
	Benzene	20	20.2	ug/L	101	1		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	22.4	ug/L	112	0		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.0	ug/L	95	1		70 (77)	130 (113)	20 (15)
	1,1,2-Trichloroethane	20	21.4	ug/L	107	1		70 (83)	130 (112)	20 (20)
	Tetrachloroethene	20	16.7	ug/L	84	1		70 (67)	130 (123)	20 (15)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3756</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VN088443.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1204WBS01	Vinyl chloride	20	20.3	ug/L	102			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.4	ug/L	102			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.6	ug/L	98			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70 (80)	130 (108)	
	Benzene	20	19.3	ug/L	97			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.8	ug/L	104			70 (80)	130 (115)	
	Trichloroethene	20	18.3	ug/L	92			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	19.9	ug/L	100			70 (83)	130 (112)	
	Tetrachloroethene	20	18.1	ug/L	91			70 (67)	130 (123)	

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1203WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088418.D

Lab Sample ID: VN1203WBL01

Date Analyzed: 12/03/2025

Time Analyzed: 11:03

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1203WBS01	VN1203WBS01	VN088419.D	12/03/2025
EB01-120225	Q3756-09	VN088422.D	12/03/2025
TB01-120225	Q3756-10	VN088423.D	12/03/2025
VN1203WBSD01	VN1203WBSD01	VN088432.D	12/03/2025
TB01-120225RE	Q3756-10RE	VN088434.D	12/03/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1204WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088439.D

Lab Sample ID: VN1204WBL01

Date Analyzed: 12/04/2025

Time Analyzed: 12:38

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1204WBS01	VN1204WBS01	VN088443.D	12/04/2025
BR-01-190-120225	Q3756-03	VN088445.D	12/04/2025
OW-04B-26.5-120225	Q3756-01	VN088446.D	12/04/2025
MW-04-12-120225	Q3756-05	VN088447.D	12/04/2025
MW-13B-47.5-120225	Q3756-07	VN088448.D	12/04/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088343.D

BFB Injection Date: 11/24/2025

Instrument ID: MSVOA_N

BFB Injection Time: 08:17

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	56.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	70.8
175	5.0 - 9.0% of mass 174	6 (8.4) 1
176	95.0 - 101.0% of mass 174	68.3 (96.4) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN088344.D	11/24/2025	12:38
VSTDIC005	VSTDIC005	VN088345.D	11/24/2025	13:11
VSTDIC020	VSTDIC020	VN088346.D	11/24/2025	13:32
VSTDIC050	VSTDIC050	VN088347.D	11/24/2025	13:53
VSTDIC100	VSTDIC100	VN088348.D	11/24/2025	14:14
VSTDIC150	VSTDIC150	VN088349.D	11/24/2025	14:35

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088415.D

BFB Injection Date: 12/03/2025

Instrument ID: MSVOA_N

BFB Injection Time: 09:36

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	58.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 100.0% of mass 95	65.8
175	5.0 - 9.0% of mass 174	4.5 (6.9) 1
176	95.0 - 101.0% of mass 174	63.6 (96.5) 1
177	5.0 - 9.0% of mass 176	3.7 (5.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088416.D	12/03/2025	10:09
VN1203WBL01	VN1203WBL01	VN088418.D	12/03/2025	11:03
VN1203WBS01	VN1203WBS01	VN088419.D	12/03/2025	11:38
EB01-120225	Q3756-09	VN088422.D	12/03/2025	12:52
TB01-120225	Q3756-10	VN088423.D	12/03/2025	13:12
VN1203WBSD01	VN1203WBSD01	VN088432.D	12/03/2025	16:17
TB01-120225RE	Q3756-10RE	VN088434.D	12/03/2025	16:58

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088436.D

BFB Injection Date: 12/04/2025

Instrument ID: MSVOA_N

BFB Injection Time: 11:03

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	59.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70.2
175	5.0 - 9.0% of mass 174	5.8 (8.3) 1
176	95.0 - 101.0% of mass 174	67.6 (96.3) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088437.D	12/04/2025	11:44
VN1204WBL01	VN1204WBL01	VN088439.D	12/04/2025	12:38
VN1204WBS01	VN1204WBS01	VN088443.D	12/04/2025	14:12
BR-01-190-120225	Q3756-03	VN088445.D	12/04/2025	15:06
OW-04B-26.5-120225	Q3756-01	VN088446.D	12/04/2025	15:26
MW-04-12-120225	Q3756-05	VN088447.D	12/04/2025	15:47
MW-13B-47.5-120225	Q3756-07	VN088448.D	12/04/2025	16:07

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG NO.: Q3756
 Lab File ID: VN088416.D Date Analyzed: 12/03/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:09
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	266209	8.21	462230	9.08	427792	11.84
UPPER LIMIT	532418	8.706	924460	9.583	855584	12.341
LOWER LIMIT	133105	7.706	231115	8.583	213896	11.341
EPA SAMPLE NO.						
EB01-120225	173573	8.21	400248	9.08	396303	11.84
TB01-120225	192200	8.21	468050	9.08	464764	11.84
TB01-120225RE	223956	8.21	518301	9.08	518638	11.84
VN1203WBL01	179578	8.21	416539	9.08	402638	11.84
VN1203WBS01	204614	8.21	382235	9.08	345174	11.84
VN1203WBSD01	250101	8.21	473571	9.08	423667	11.84

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>JACO05</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3756</u>
Lab File ID:	<u>VN088416.D</u>	Date Analyzed:	<u>12/03/2025</u>
Instrument ID:	<u>MSVOA_N</u>	Time Analyzed:	<u>10:09</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	213345	13.765				
UPPER LIMIT	426690	14.265				
LOWER LIMIT	106673	13.265				
EPA SAMPLE NO.						
EB01-120225	182664	13.77				
TB01-120225	219360	13.77				
TB01-120225RE	245675	13.77				
VN1203WBL01	186090	13.77				
VN1203WBS01	173546	13.77				
VN1203WBSD01	214103	13.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JAC005
Lab Code: ACE SDG NO.: Q3756
Lab File ID: VN088437.D Date Analyzed: 12/04/2025
Instrument ID: MSVOA_N Time Analyzed: 11:44
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	259230	8.21	454552	9.08	431157	11.84
UPPER LIMIT	518460	8.706	909104	9.577	862314	12.341
LOWER LIMIT	129615	7.706	227276	8.577	215579	11.341
EPA SAMPLE NO.						
OW-04B-26.5-120225	243663	8.21	555543	9.08	546868	11.84
BR-01-190-120225	246275	8.21	564051	9.08	564375	11.84
MW-04-12-120225	206051	8.21	468908	9.08	455230	11.84
MW-13B-47.5-120225	206071	8.21	471902	9.08	469221	11.84
VN1204WBL01	236600	8.21	556948	9.08	555675	11.84
VN1204WBS01	303745	8.21	559564	9.08	491842	11.84

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>JACO05</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3756</u>
Lab File ID:	<u>VN088437.D</u>	Date Analyzed:	<u>12/04/2025</u>
Instrument ID:	<u>MSVOA_N</u>	Time Analyzed:	<u>11:44</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	210277	13.765				
UPPER LIMIT	420554	14.265				
LOWER LIMIT	105139	13.265				
EPA SAMPLE NO.						
OW-04B-26.5-120225	268660	13.76				
BR-01-190-120225	278056	13.77				
MW-04-12-120225	220606	13.77				
MW-13B-47.5-120225	222578	13.77				
VN1204WBL01	258091	13.77				
VN1204WBS01	237731	13.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: VN1203WBL01
 Lab Sample ID: VN1203WBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/03/25 11:03	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 11:03	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 11:03	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 11:03	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 11:03	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 11:03	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 11:03	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	59.5			70 (74) - 130 (125)	119%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.7			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	47.6			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	47.1			70 (77) - 130 (121)	94%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	180000							
540-36-3	1,4-Difluorobenzene	417000							
3114-55-4	Chlorobenzene-d5	403000							
3855-82-1	1,4-Dichlorobenzene-d4	186000							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VN1204WBL01
Lab Sample ID: VN1204WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/04/25 12:38	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 12:38	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 12:38	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 12:38	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 12:38	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 12:38	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 12:38	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	61.7			70 (74) - 130 (125)	123%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.8			70 (75) - 130 (124)	102%	SPK: 50		
2037-26-5	Toluene-d8	46.7			70 (86) - 130 (113)	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.9			70 (77) - 130 (121)	100%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	237000							
540-36-3	1,4-Difluorobenzene	557000							
3114-55-4	Chlorobenzene-d5	556000							
3855-82-1	1,4-Dichlorobenzene-d4	258000							

U = Not Detected

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VN1203WBS01
Lab Sample ID: VN1203WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	19.5		1	0.26	1.00	ug/L	12/03/25 11:38	VN120325
75-35-4	1,1-Dichloroethene	18.9		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
75-34-3	1,1-Dichloroethane	21.6		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
156-59-2	cis-1,2-Dichloroethene	20.7		1	0.19	1.00	ug/L	12/03/25 11:38	VN120325
71-55-6	1,1,1-Trichloroethane	20.7		1	0.20	1.00	ug/L	12/03/25 11:38	VN120325
71-43-2	Benzene	20.3		1	0.15	1.00	ug/L	12/03/25 11:38	VN120325
107-06-2	1,2-Dichloroethane	22.3		1	0.22	1.00	ug/L	12/03/25 11:38	VN120325
79-01-6	Trichloroethene	19.2		1	0.090	1.00	ug/L	12/03/25 11:38	VN120325
79-00-5	1,1,2-Trichloroethane	21.1		1	0.21	1.00	ug/L	12/03/25 11:38	VN120325
127-18-4	Tetrachloroethene	16.5		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.3			70 (74) - 130 (125)	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.3			70 (75) - 130 (124)	103%	SPK: 50		
2037-26-5	Toluene-d8	49.5			70 (86) - 130 (113)	99%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.3			70 (77) - 130 (121)	99%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	205000							
540-36-3	1,4-Difluorobenzene	382000							
3114-55-4	Chlorobenzene-d5	345000							
3855-82-1	1,4-Dichlorobenzene-d4	174000							

U = Not Detected

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VN1204WBS01
Lab Sample ID: VN1204WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	20.3		1	0.26	1.00	ug/L	12/04/25 14:12	VN120425
75-35-4	1,1-Dichloroethene	20.4		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
75-34-3	1,1-Dichloroethane	19.6		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
156-59-2	cis-1,2-Dichloroethene	19.0		1	0.19	1.00	ug/L	12/04/25 14:12	VN120425
71-55-6	1,1,1-Trichloroethane	20.7		1	0.20	1.00	ug/L	12/04/25 14:12	VN120425
71-43-2	Benzene	19.3		1	0.15	1.00	ug/L	12/04/25 14:12	VN120425
107-06-2	1,2-Dichloroethane	20.8		1	0.22	1.00	ug/L	12/04/25 14:12	VN120425
79-01-6	Trichloroethene	18.3		1	0.090	1.00	ug/L	12/04/25 14:12	VN120425
79-00-5	1,1,2-Trichloroethane	19.9		1	0.21	1.00	ug/L	12/04/25 14:12	VN120425
127-18-4	Tetrachloroethene	18.1		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.8			70 (74) - 130 (125)	108%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.7			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	51.7			70 (86) - 130 (113)	103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.4			70 (77) - 130 (121)	109%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	304000							
540-36-3	1,4-Difluorobenzene	560000							
3114-55-4	Chlorobenzene-d5	492000							
3855-82-1	1,4-Dichlorobenzene-d4	238000							

U = Not Detected

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N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VN1203WBSD01
Lab Sample ID: VN1203WBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	20.5		1	0.26	1.00	ug/L	12/03/25 16:17	VN120325
75-35-4	1,1-Dichloroethene	21.2		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
75-34-3	1,1-Dichloroethane	21.6		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
156-59-2	cis-1,2-Dichloroethene	20.8		1	0.19	1.00	ug/L	12/03/25 16:17	VN120325
71-55-6	1,1,1-Trichloroethane	21.9		1	0.20	1.00	ug/L	12/03/25 16:17	VN120325
71-43-2	Benzene	20.2		1	0.15	1.00	ug/L	12/03/25 16:17	VN120325
107-06-2	1,2-Dichloroethane	22.4		1	0.22	1.00	ug/L	12/03/25 16:17	VN120325
79-01-6	Trichloroethene	19.0		1	0.090	1.00	ug/L	12/03/25 16:17	VN120325
79-00-5	1,1,2-Trichloroethane	21.4		1	0.21	1.00	ug/L	12/03/25 16:17	VN120325
127-18-4	Tetrachloroethene	16.7		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.9			70 (74) - 130 (125)	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.9			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	52.0			70 (86) - 130 (113)	104%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.2			70 (77) - 130 (121)	104%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	250000							
540-36-3	1,4-Difluorobenzene	474000							
3114-55-4	Chlorobenzene-d5	424000							
3855-82-1	1,4-Dichlorobenzene-d4	214000							

U = Not Detected

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>JAC005</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3756</u>
Instrument ID: <u>MSVOA_N</u>	Calibration Date(s): <u>11/24/2025</u> <u>11/24/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>12:38</u> <u>14:35</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:		RRF001 = VN088344.D		RRF005 = VN088345.D		RRF020 = VN088346.D		
		RRF050 = VN088347.D		RRF100 = VN088348.D		RRF150 = VN088349.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Vinyl Chloride	0.804	0.844	0.856	0.812	0.837	0.772	0.821	3.8
1,1-Dichloroethene	0.722	0.620	0.601	0.568	0.595	0.554	0.610	9.8
1,1-Dichloroethane	1.389	1.431	1.348	1.427	1.321	1.286	1.367	4.3
cis-1,2-Dichloroethene	0.797	0.801	0.794	0.829	0.747	0.744	0.785	4.2
1,1,1-Trichloroethane	1.247	1.219	1.192	1.158	1.166	1.104	1.181	4.3
Benzene	1.658	1.555	1.609	1.559	1.559	1.477	1.570	3.9
1,2-Dichloroethane	0.583	0.614	0.596	0.615	0.597	0.587	0.599	2.3
Trichloroethene	0.382	0.385	0.383	0.357	0.371	0.348	0.371	4.1
1,1,2-Trichloroethane	0.350	0.359	0.364	0.353	0.341	0.336	0.351	3
Tetrachloroethene	0.426	0.388	0.413	0.377	0.407	0.367	0.396	5.7
1,2-Dichloroethane-d4		0.954	0.916	0.999	0.882	0.960	0.942	4.7
Dibromofluoromethane		0.361	0.350	0.350	0.334	0.337	0.346	3.2
Toluene-d8		1.249	1.292	1.285	1.308	1.313	1.289	2
4-Bromofluorobenzene		0.402	0.413	0.448	0.466	0.482	0.442	7.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3756</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/03/2025</u> <u>10:09</u>
Lab File ID:	<u>VN088416.D</u>	Init. Calib. Date(s):	<u>11/24/2025</u> <u>11/24/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:38</u> <u>14:35</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.821	0.811		-1.22	20
1,1-Dichloroethene	0.610	0.613		0.49	20
1,1-Dichloroethane	1.367	1.405	0.1	2.78	20
cis-1,2-Dichloroethene	0.785	0.798		1.66	20
1,1,1-Trichloroethane	1.181	1.235		4.57	20
Benzene	1.570	1.684		7.26	20
1,2-Dichloroethane	0.599	0.684		14.19	20
Trichloroethene	0.371	0.368		-0.81	20
1,1,2-Trichloroethane	0.351	0.383		9.12	20
Tetrachloroethene	0.396	0.363		-8.33	20
1,2-Dichloroethane-d4	0.942	0.983		4.35	20
Dibromofluoromethane	0.346	0.378		9.25	20
Toluene-d8	1.289	1.390		7.84	20
4-Bromofluorobenzene	0.442	0.489		10.63	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3756</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/04/2025 11:44</u>
Lab File ID:	<u>VN088437.D</u>	Init. Calib. Date(s):	<u>11/24/2025 11/24/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:38 14:35</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.821	0.817		-0.49	20
1,1-Dichloroethene	0.610	0.619		1.48	20
1,1-Dichloroethane	1.367	1.487	0.1	8.78	20
cis-1,2-Dichloroethene	0.785	0.832		5.99	20
1,1,1-Trichloroethane	1.181	1.277		8.13	20
Benzene	1.570	1.743		11.02	20
1,2-Dichloroethane	0.599	0.729		21.7	20
Trichloroethene	0.371	0.385		3.77	20
1,1,2-Trichloroethane	0.351	0.402		14.53	20
Tetrachloroethene	0.396	0.360		-9.09	20
1,2-Dichloroethane-d4	0.942	1.041		10.51	20
Dibromofluoromethane	0.346	0.396		14.45	20
Toluene-d8	1.289	1.429		10.86	20
4-Bromofluorobenzene	0.442	0.507		14.71	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088446.D
 Acq On : 04 Dec 2025 15:26
 Operator : JC\MD
 Sample : Q3756-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OW-04B-26.5-120225

Quant Time: Dec 05 00:17:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	243663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	555543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	546868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.764	152	268660	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	258819	56.386	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.780%
35) Dibromofluoromethane	8.147	113	179703	46.677	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.360%
50) Toluene-d8	10.541	98	635634	44.374	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	88.740%
62) 4-Bromofluorobenzene	12.823	95	267239	54.372	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	108.740%

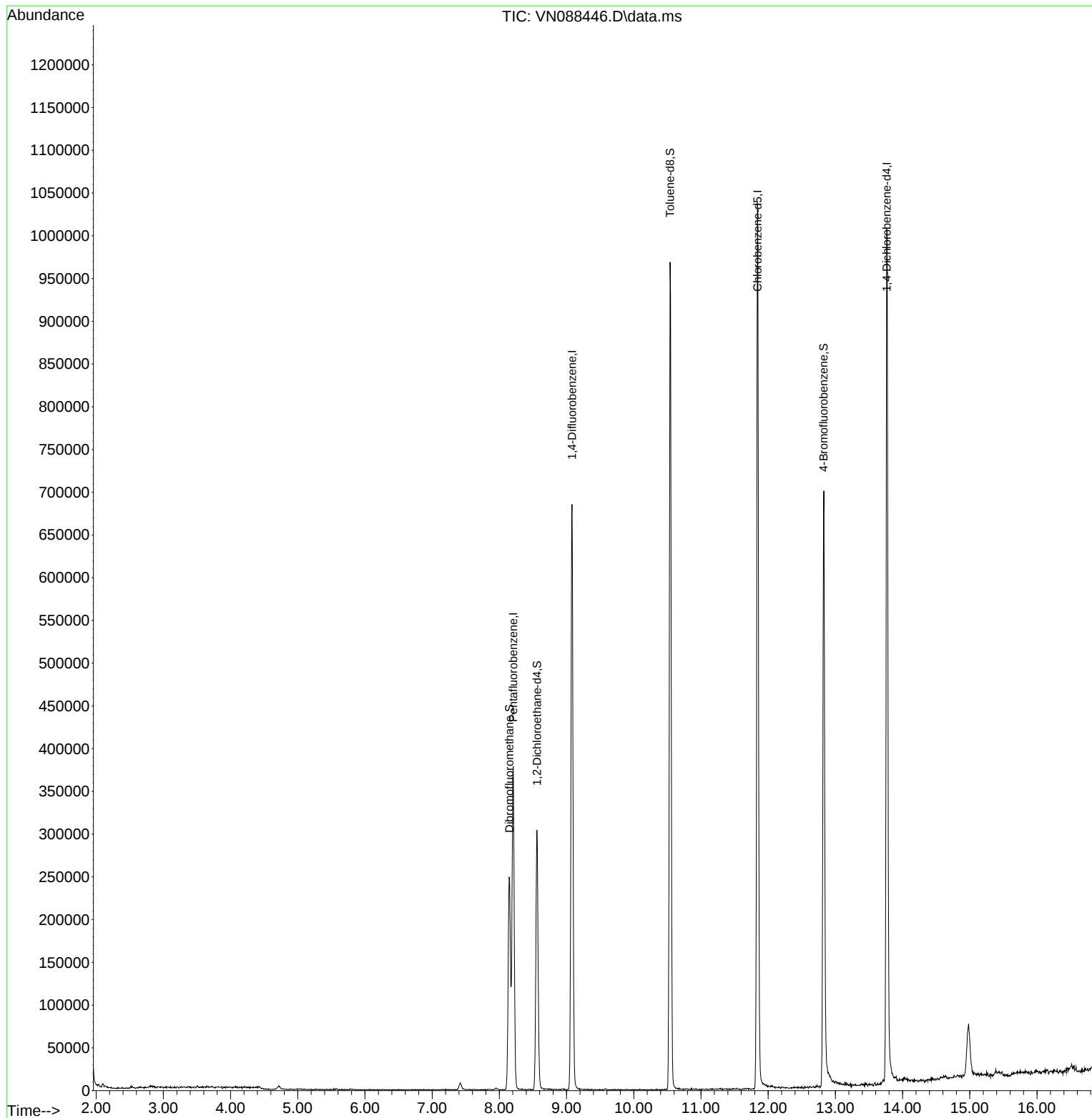
Target Compounds	Qvalue

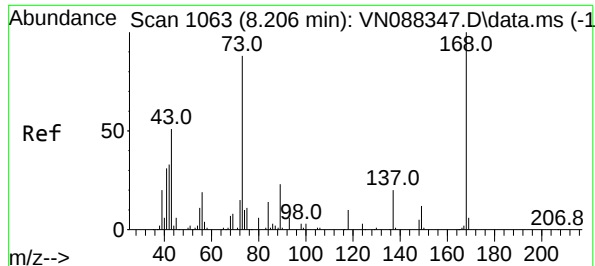
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088446.D
Acq On : 04 Dec 2025 15:26
Operator : JC\MD
Sample : Q3756-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

Quant Time: Dec 05 00:17:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

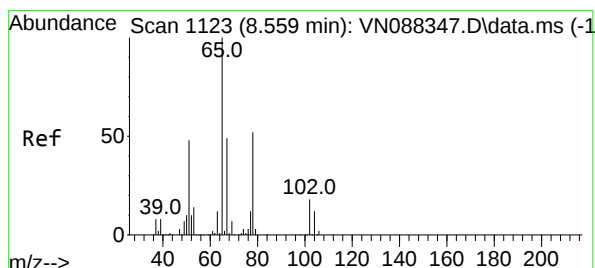
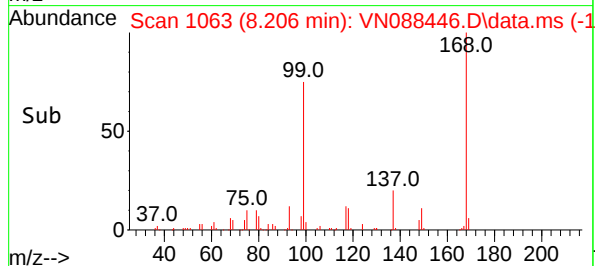
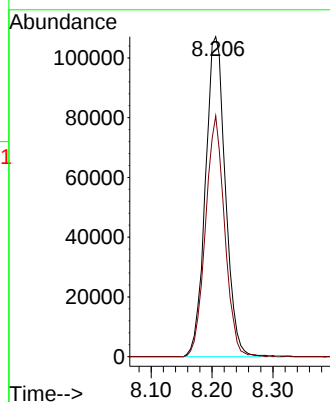
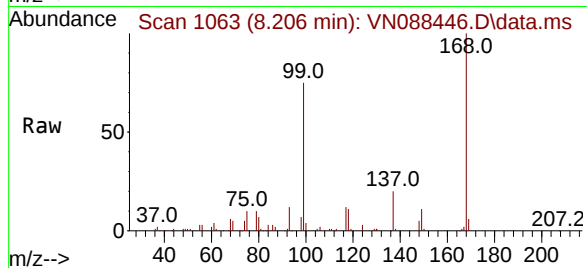




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

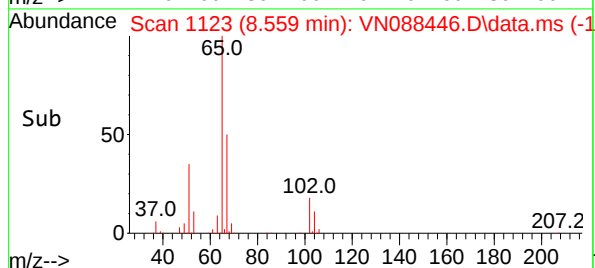
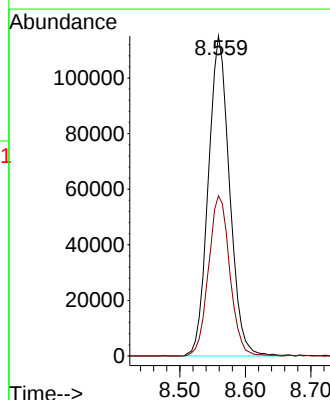
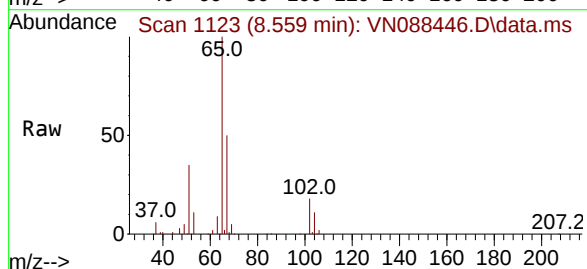
Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

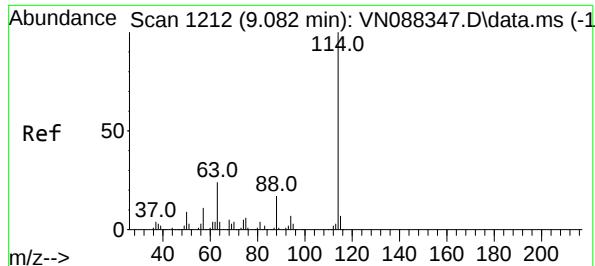
Tgt Ion:168 Resp: 243663
Ion Ratio Lower Upper
168 100
99 75.3 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 56.386 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Tgt Ion: 65 Resp: 258819
Ion Ratio Lower Upper
65 100
67 50.2 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

Instrument :

MSVOA_N

ClientSampleId :

OW-04B-26.5-120225

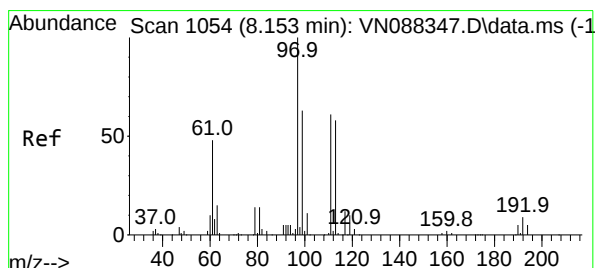
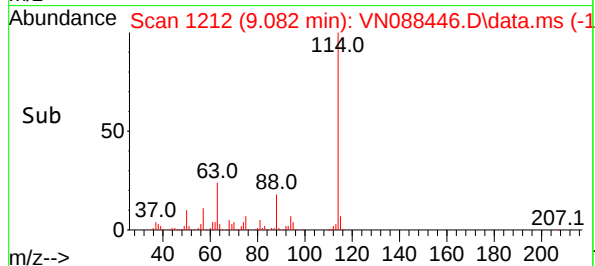
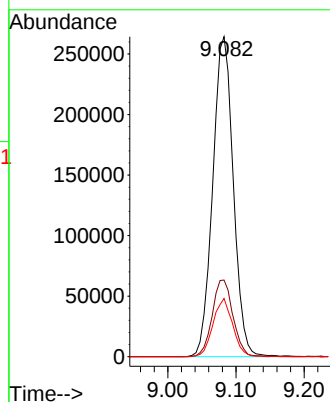
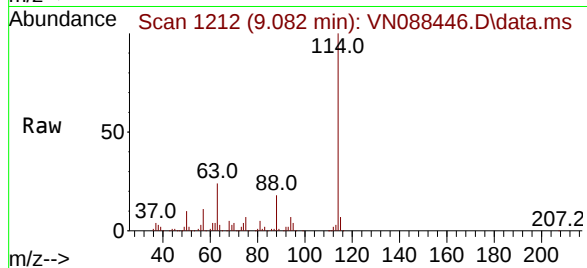
Tgt Ion:114 Resp: 555543

Ion Ratio Lower Upper

114 100

63 24.0 0.0 49.0

88 18.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 46.677 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

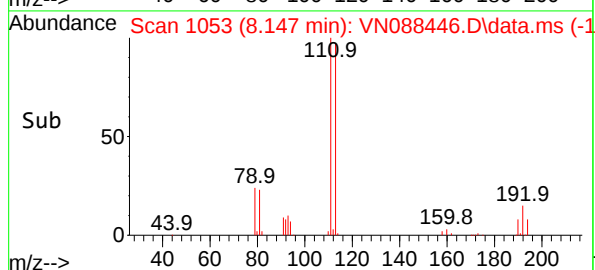
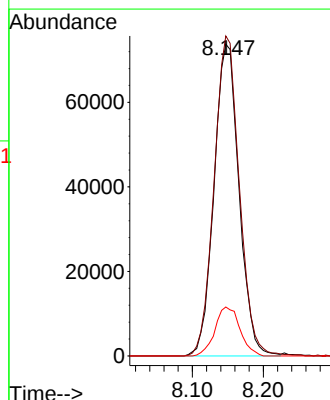
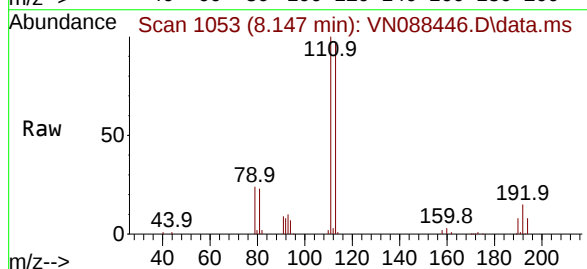
Tgt Ion:113 Resp: 179703

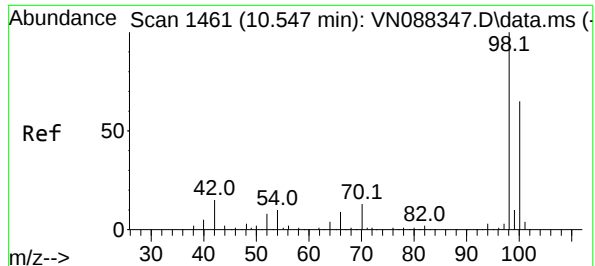
Ion Ratio Lower Upper

113 100

111 103.9 82.5 123.7

192 15.8 12.8 19.2





#50

Toluene-d8

Concen: 44.374 ug/l

RT: 10.541 min Scan# 1461

Delta R.T. -0.006 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

Instrument :

MSVOA_N

ClientSampleId :

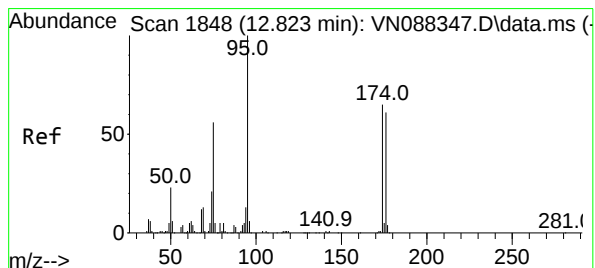
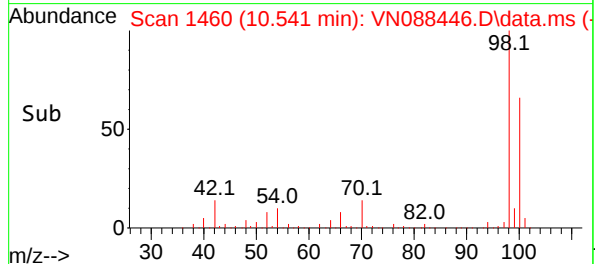
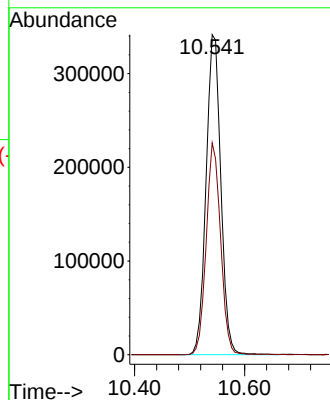
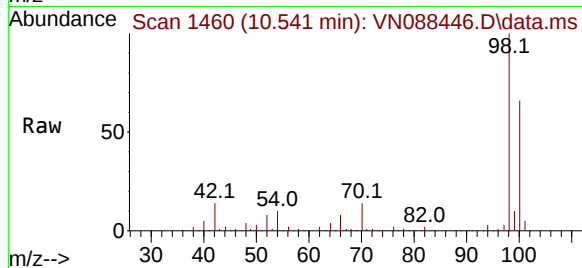
OW-04B-26.5-120225

Tgt Ion: 98 Resp: 635634

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 54.372 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. 0.000 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

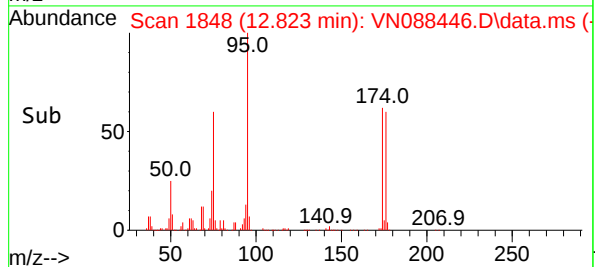
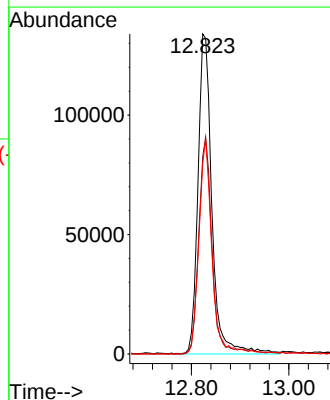
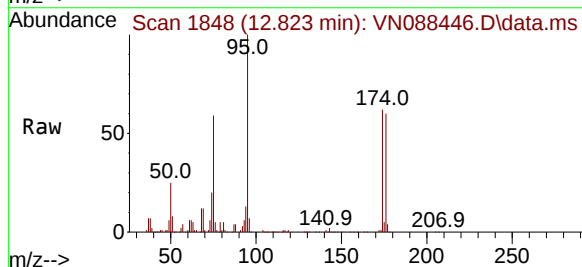
Tgt Ion: 95 Resp: 267239

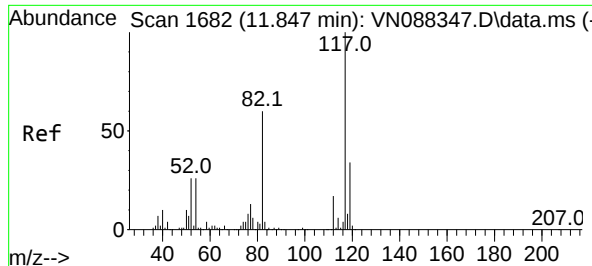
Ion Ratio Lower Upper

95 100

174 64.8 0.0 139.0

176 62.7 0.0 132.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

Instrument :

MSVOA_N

ClientSampleId :

OW-04B-26.5-120225

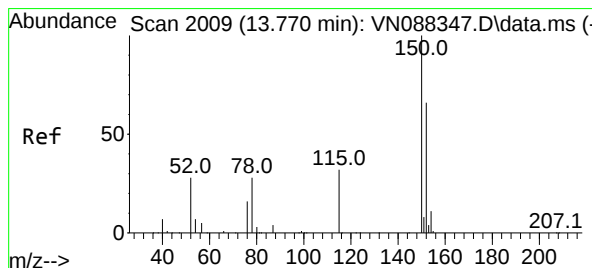
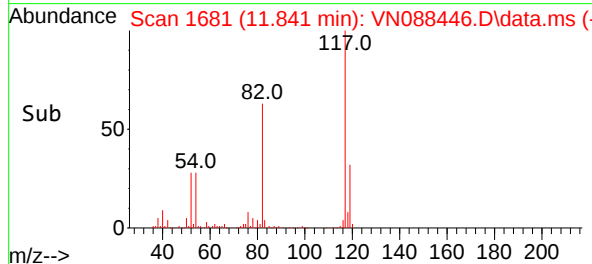
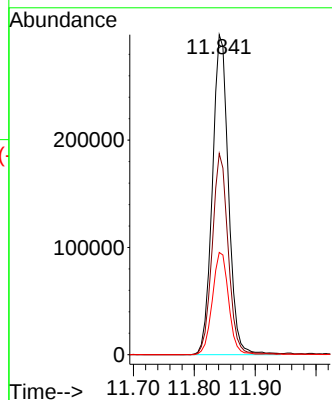
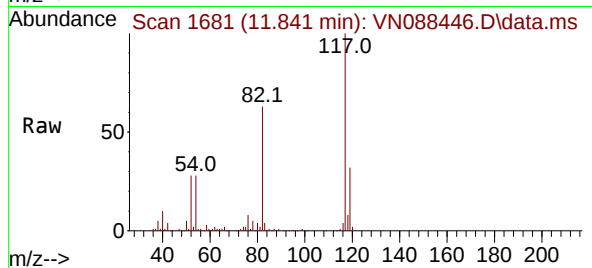
Tgt Ion:117 Resp: 546868

Ion Ratio Lower Upper

117 100

82 62.9 47.8 71.8

119 31.9 26.9 40.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.764 min Scan# 2008

Delta R.T. -0.006 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

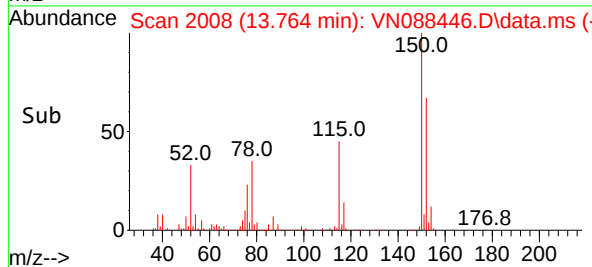
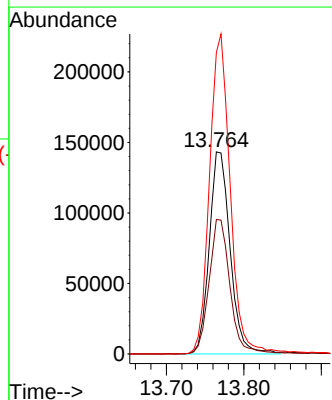
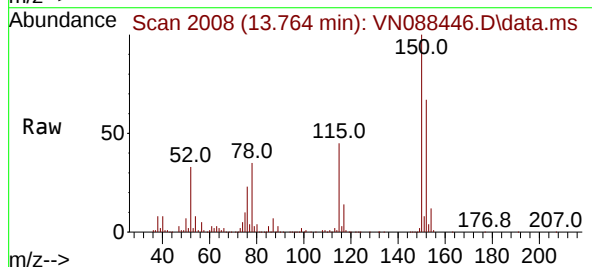
Tgt Ion:152 Resp: 268660

Ion Ratio Lower Upper

152 100

115 66.9 33.0 98.9

150 157.9 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088445.D
 Acq On : 04 Dec 2025 15:06
 Operator : JC\MD
 Sample : Q3756-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BR-01-190-120225

Quant Time: Dec 05 00:16:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

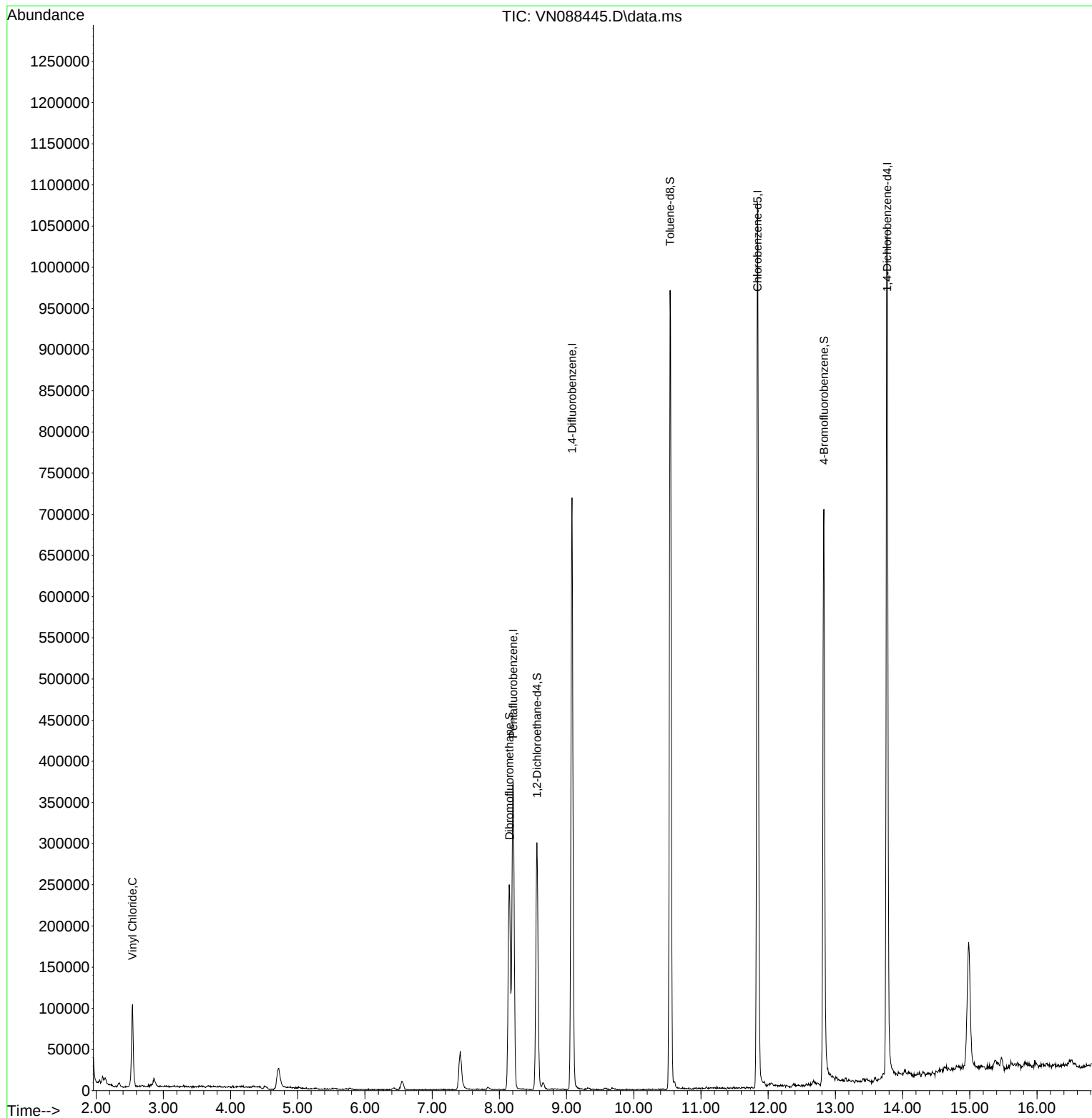
Internal Standards						
1) Pentafluorobenzene	8.206	168	246275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	564051	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	564375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	278056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	260534	56.158	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.320%
35) Dibromofluoromethane	8.147	113	179677	45.967	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.940%
50) Toluene-d8	10.541	98	640125	44.013	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	88.020%
62) 4-Bromofluorobenzene	12.829	95	263053	52.713	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.420%
Target Compounds						
4) Vinyl Chloride	2.542	62	102480	25.356	ug/l	Qvalue 99

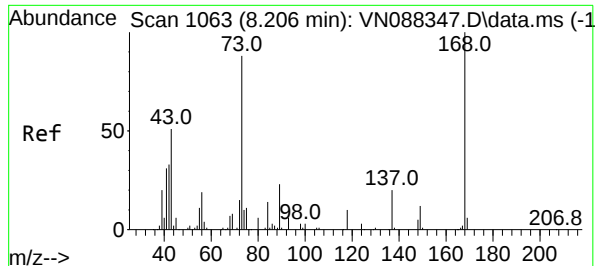
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088445.D
Acq On : 04 Dec 2025 15:06
Operator : JC\MD
Sample : Q3756-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Quant Time: Dec 05 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

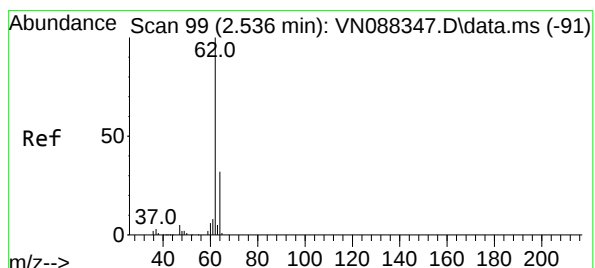
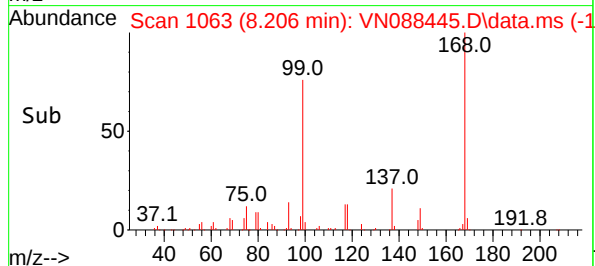
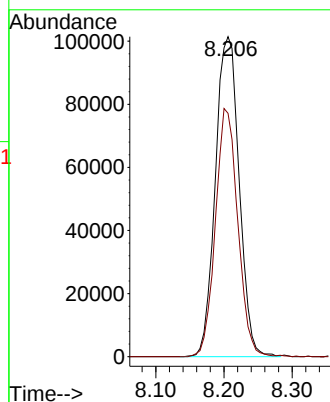
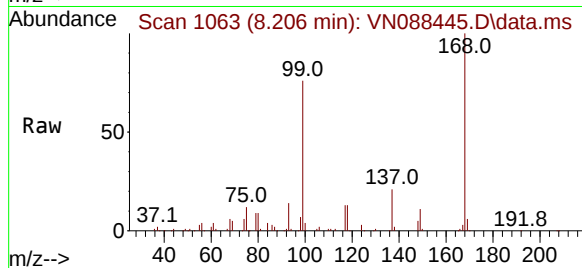




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

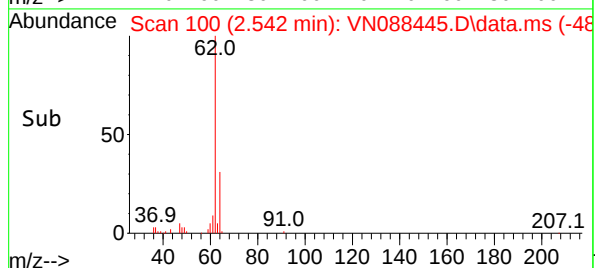
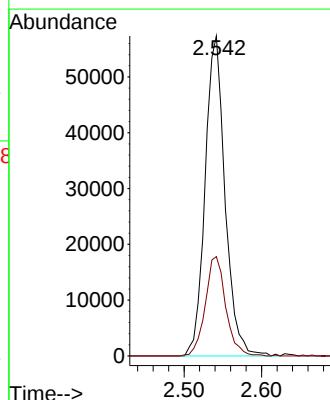
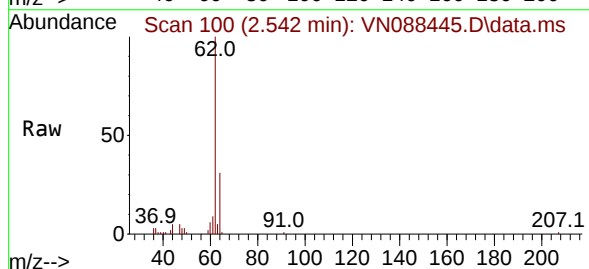
Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

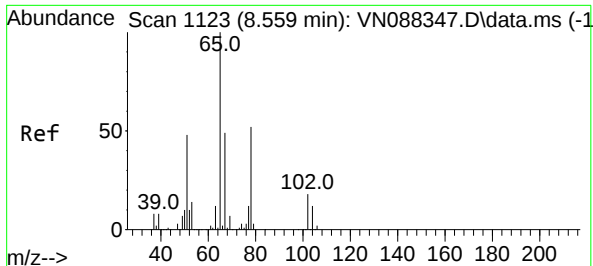
Tgt Ion:168 Resp: 246275
Ion Ratio Lower Upper
168 100
99 76.1 57.1 85.7



#4
Vinyl Chloride
Concen: 25.356 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Tgt Ion: 62 Resp: 102480
Ion Ratio Lower Upper
62 100
64 31.0 25.4 38.2





#33

1,2-Dichloroethane-d4

Concen: 56.158 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

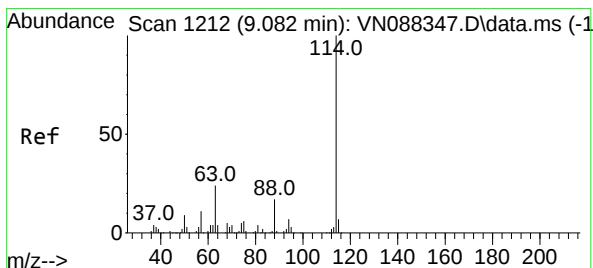
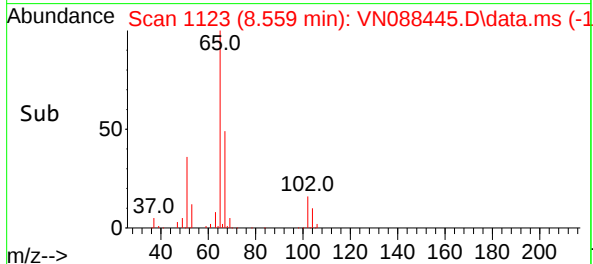
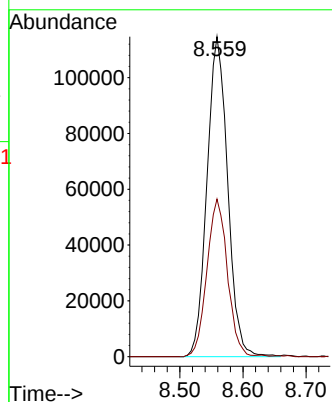
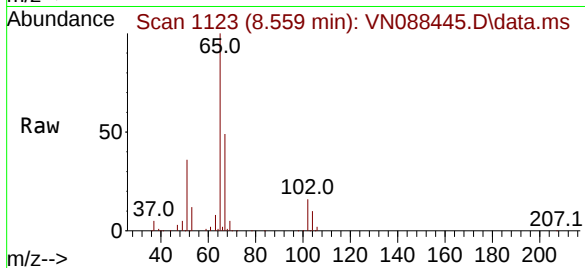
BR-01-190-120225

Tgt Ion: 65 Resp: 260534

Ion Ratio Lower Upper

65 100

67 48.8 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

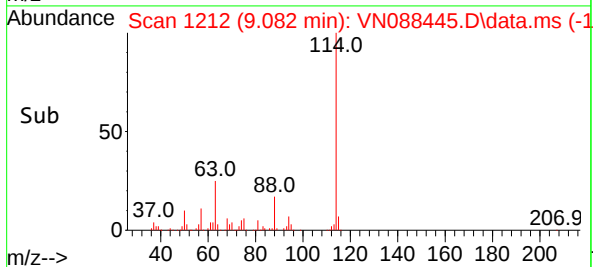
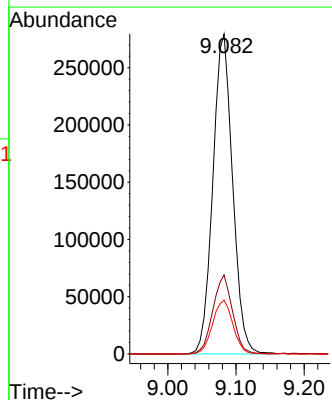
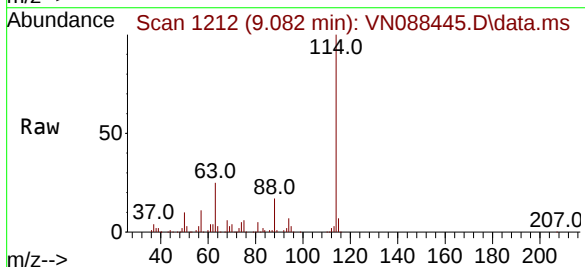
Tgt Ion: 114 Resp: 564051

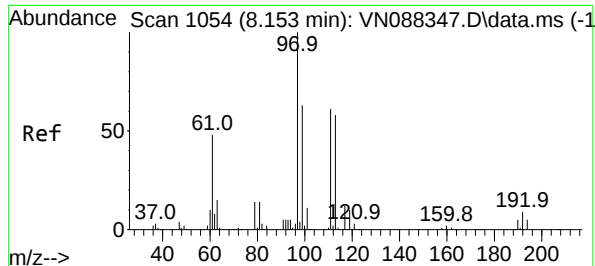
Ion Ratio Lower Upper

114 100

63 24.7 0.0 49.0

88 16.8 0.0 34.0





#35

Dibromofluoromethane

Concen: 45.967 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088445.D

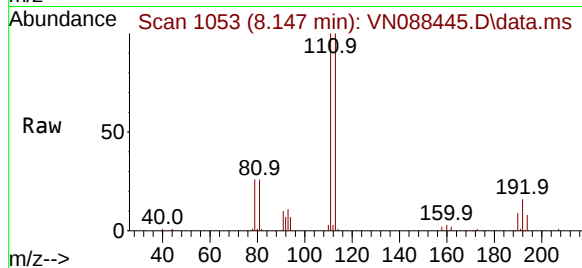
Acq: 04 Dec 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

BR-01-190-120225



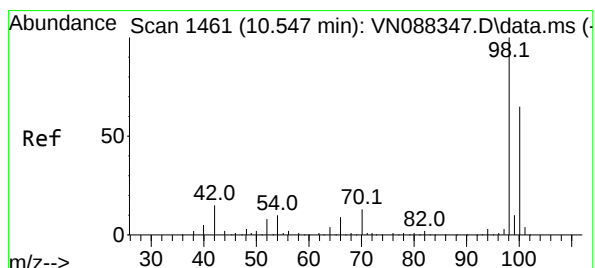
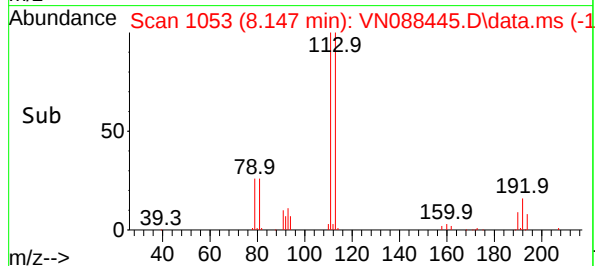
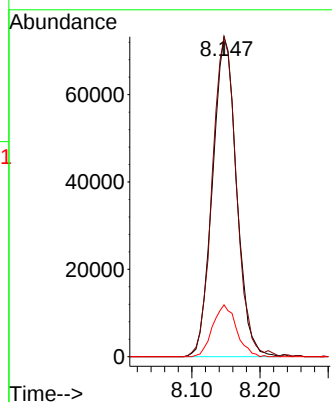
Tgt Ion:113 Resp: 179677

Ion Ratio Lower Upper

113 100

111 100.9 82.5 123.7

192 16.1 12.8 19.2



#50

Toluene-d8

Concen: 44.013 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088445.D

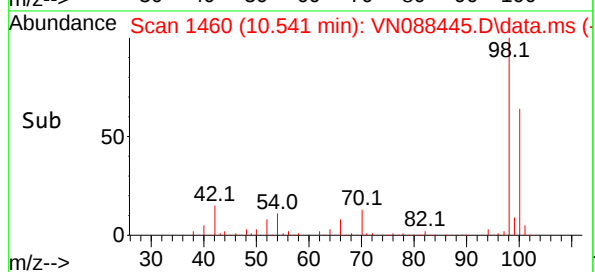
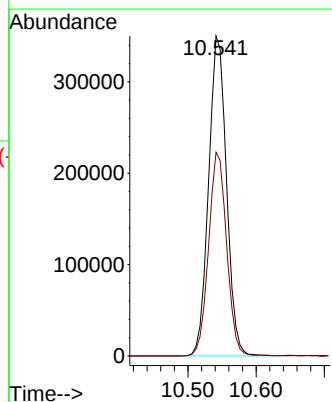
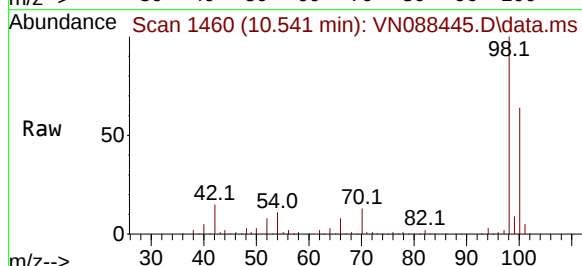
Acq: 04 Dec 2025 15:06

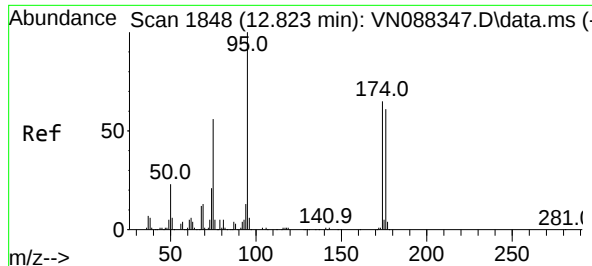
Tgt Ion: 98 Resp: 640125

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2

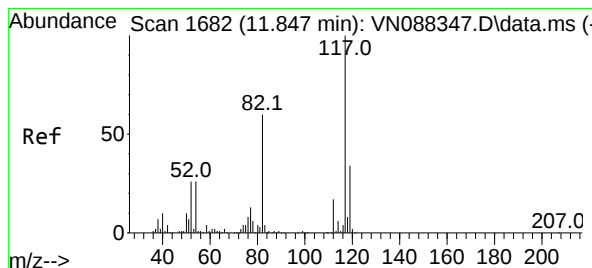
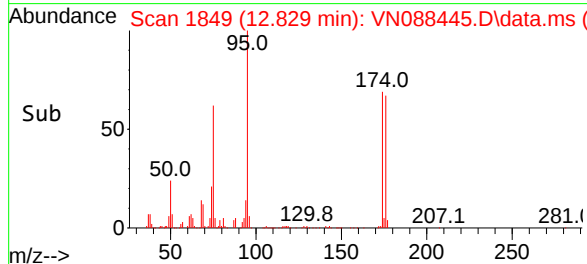
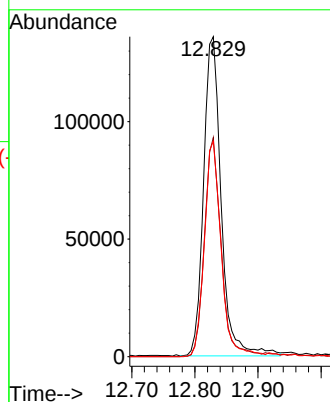
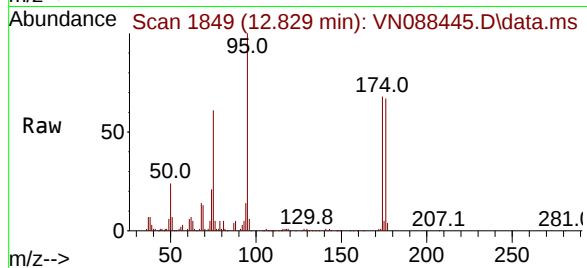




#62
4-Bromofluorobenzene
Concen: 52.713 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

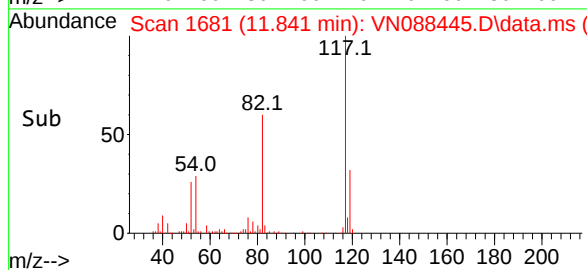
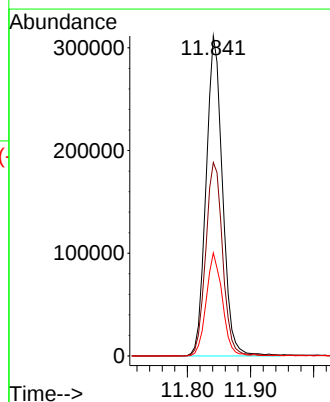
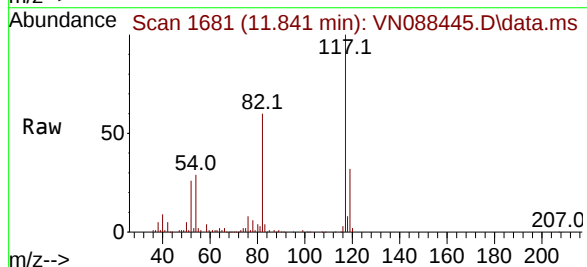
Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

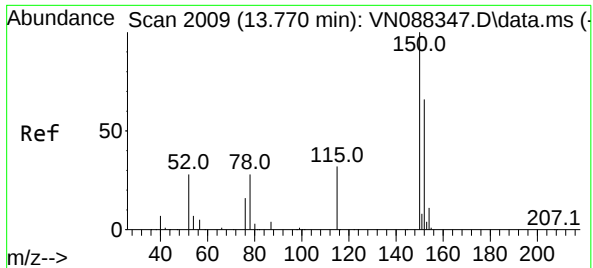
Tgt Ion: 95 Resp: 263053
Ion Ratio Lower Upper
95 100
174 64.8 0.0 139.0
176 64.3 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Tgt Ion: 117 Resp: 564375
Ion Ratio Lower Upper
117 100
82 60.4 47.8 71.8
119 32.2 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN088445.D

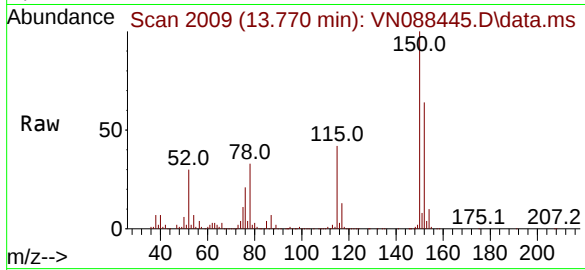
Acq: 04 Dec 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

BR-01-190-120225



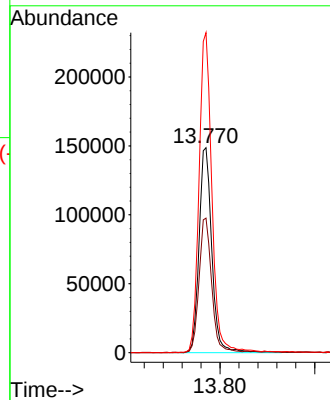
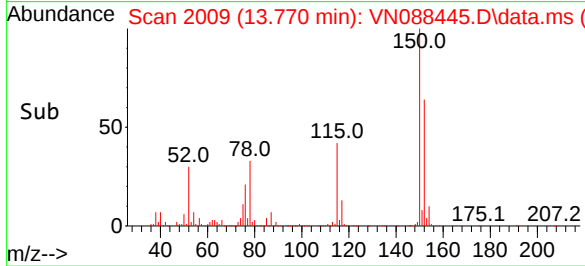
Tgt Ion:152 Resp: 278056

Ion Ratio Lower Upper

152 100

115 65.0 33.0 98.9

150 156.8 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088447.D
 Acq On : 04 Dec 2025 15:47
 Operator : JC\MD
 Sample : Q3756-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-04-12-120225

Quant Time: Dec 05 00:17:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

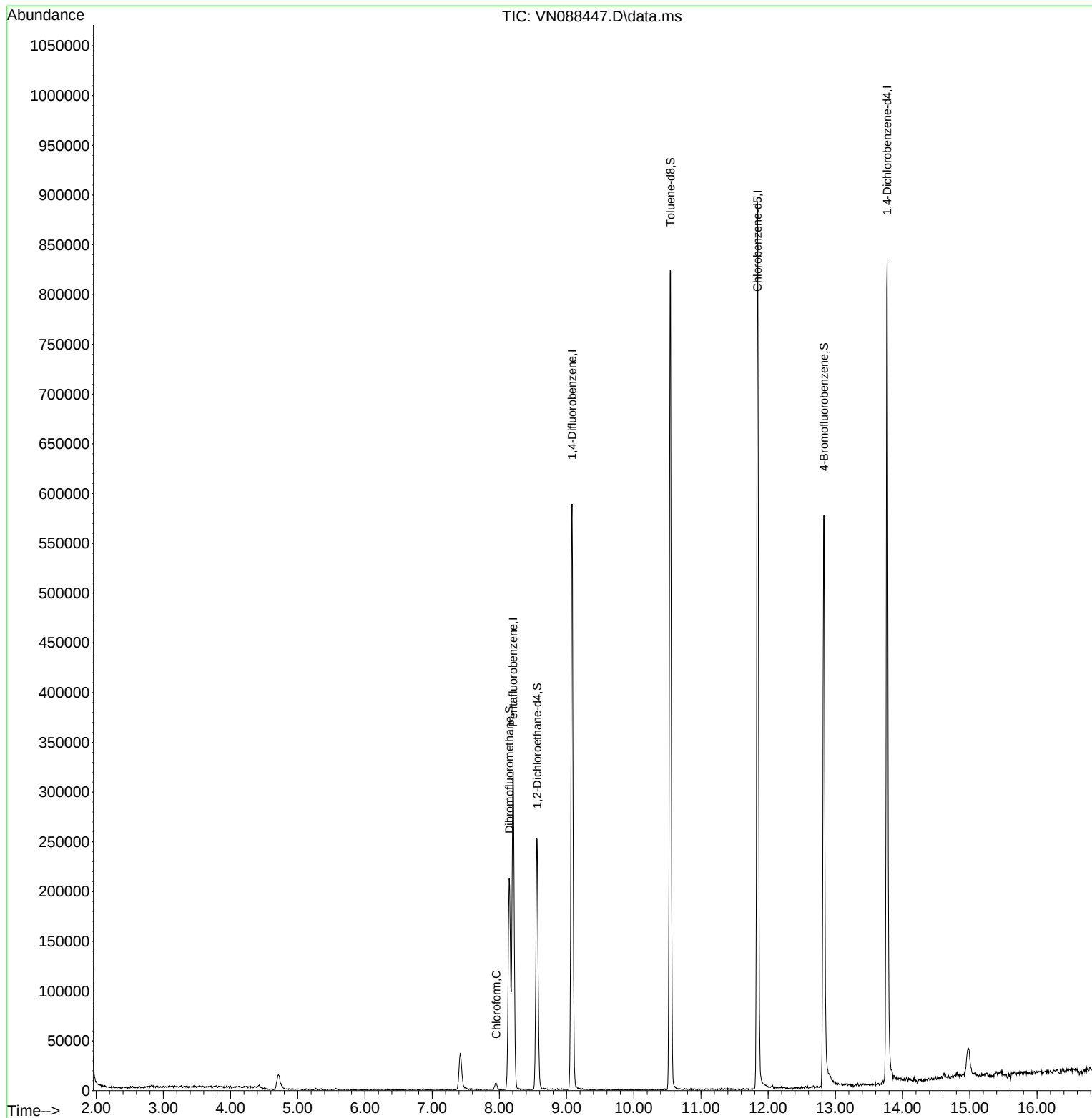
Internal Standards						
1) Pentafluorobenzene	8.206	168	206051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	468908	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	455230	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	220606	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	214160	55.173	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.340%
35) Dibromofluoromethane	8.147	113	153204	47.147	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.300%
50) Toluene-d8	10.547	98	553012	45.739	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.480%
62) 4-Bromofluorobenzene	12.829	95	210748	50.800	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.600%
Target Compounds						
30) Chloroform	7.953	83	6731	1.216	ug/l	Qvalue 93

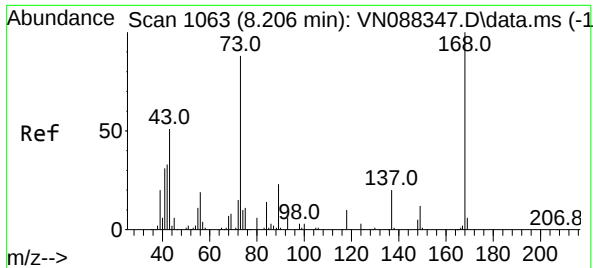
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088447.D
Acq On : 04 Dec 2025 15:47
Operator : JC\MD
Sample : Q3756-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Quant Time: Dec 05 00:17:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

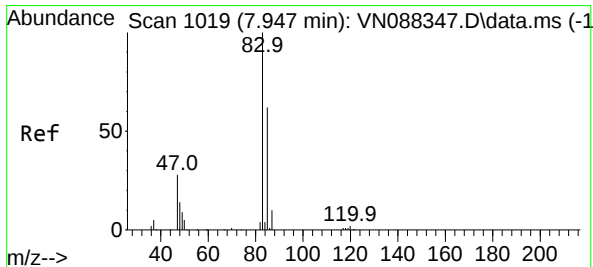
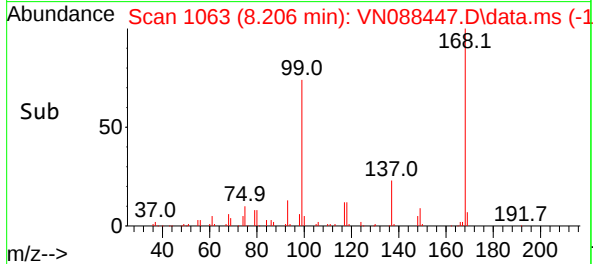
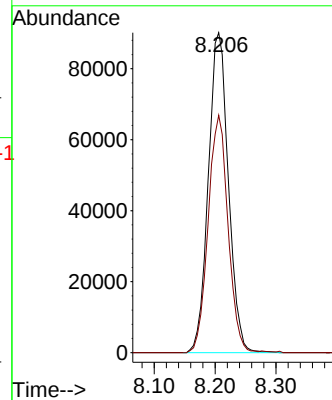
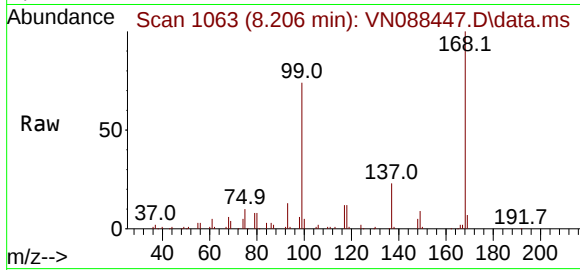




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

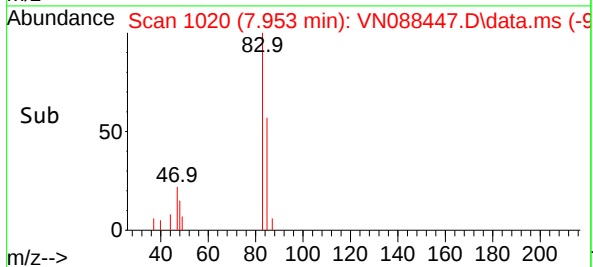
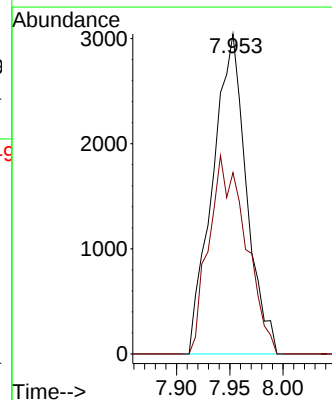
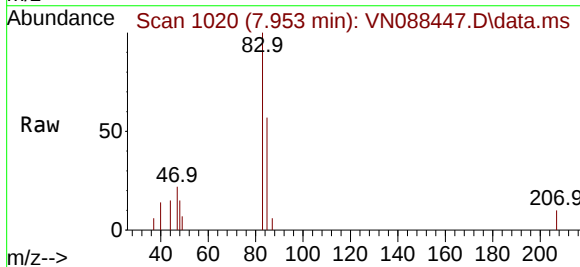
Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

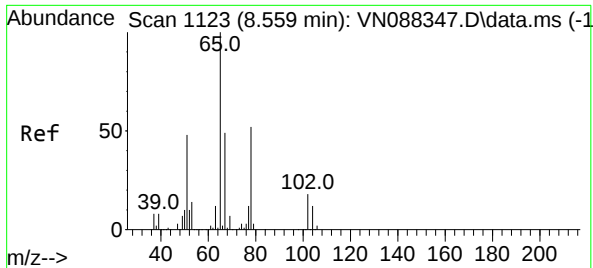
Tgt Ion:168 Resp: 206051
Ion Ratio Lower Upper
168 100
99 74.2 57.1 85.7



#30
Chloroform
Concen: 1.216 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Tgt Ion: 83 Resp: 6731
Ion Ratio Lower Upper
83 100
85 56.6 49.8 74.8





#33

1,2-Dichloroethane-d4

Concen: 55.173 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN088447.D

Acq: 04 Dec 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

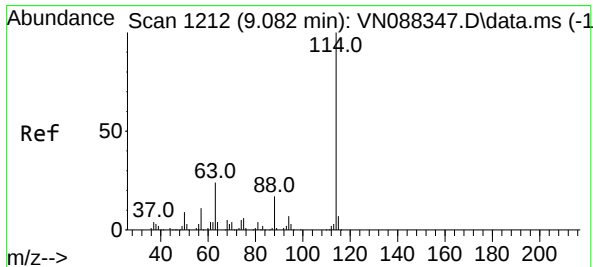
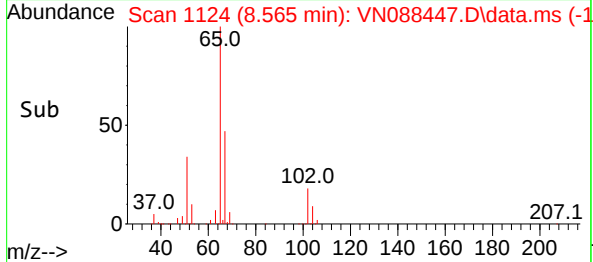
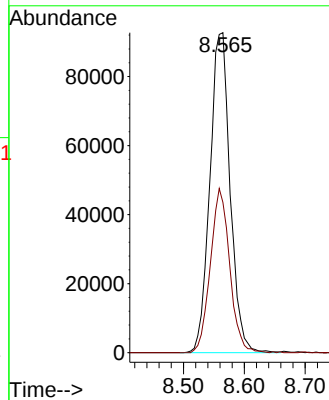
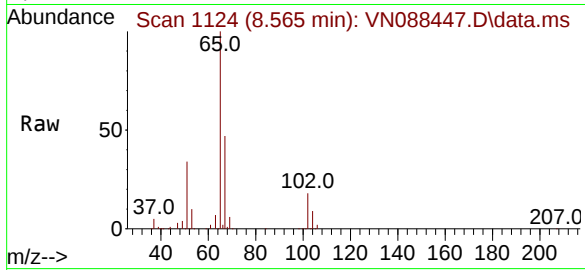
MW-04-12-120225

Tgt Ion: 65 Resp: 214160

Ion Ratio Lower Upper

65 100

67 48.9 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088447.D

Acq: 04 Dec 2025 15:47

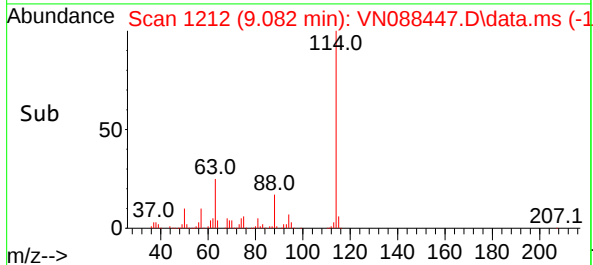
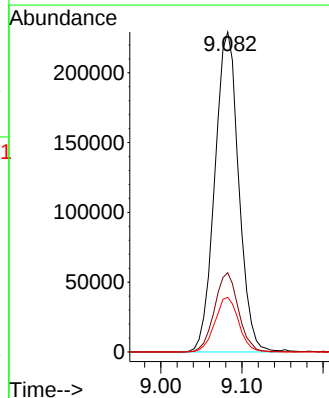
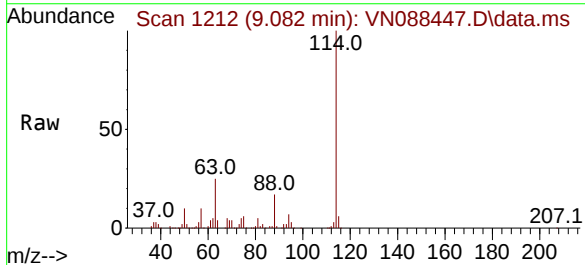
Tgt Ion: 114 Resp: 468908

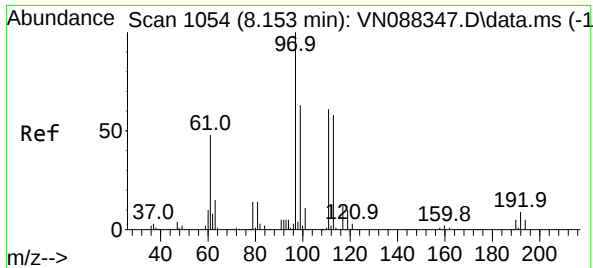
Ion Ratio Lower Upper

114 100

63 24.7 0.0 49.0

88 17.1 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.147 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088447.D

Acq: 04 Dec 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW-04-12-120225

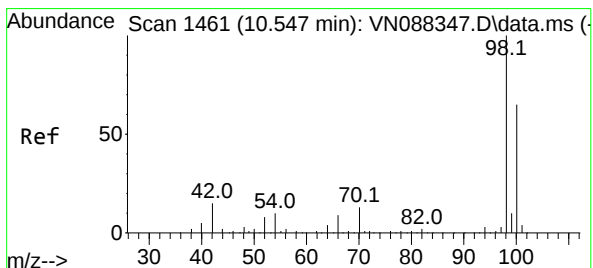
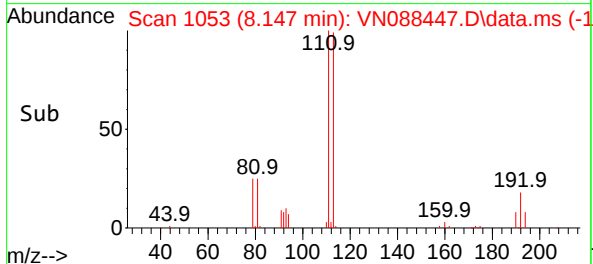
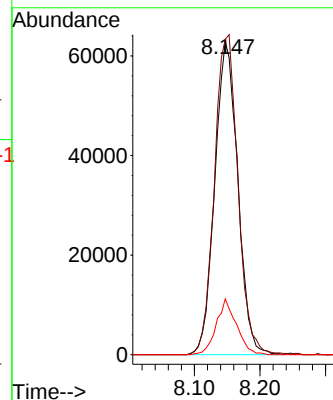
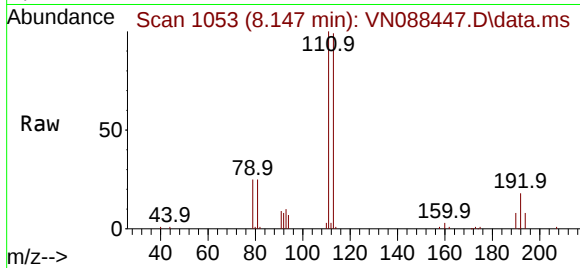
Tgt Ion:113 Resp: 153204

Ion Ratio Lower Upper

113 100

111 104.2 82.5 123.7

192 15.7 12.8 19.2



#50

Toluene-d8

Concen: 45.739 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN088447.D

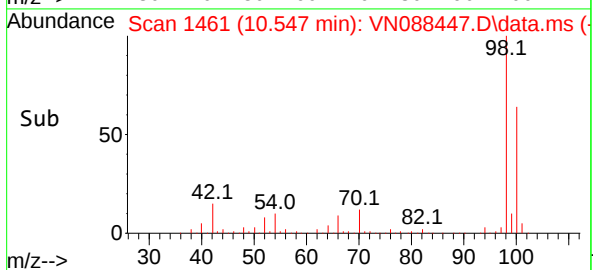
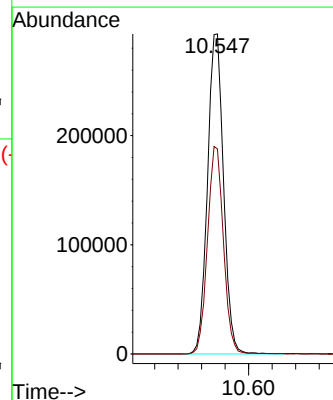
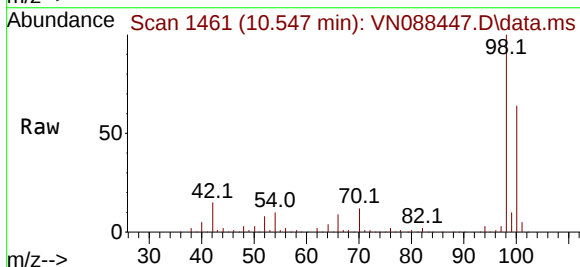
Acq: 04 Dec 2025 15:47

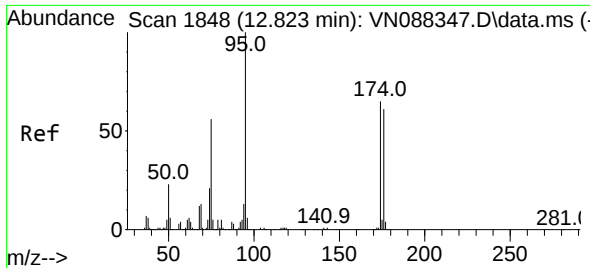
Tgt Ion: 98 Resp: 553012

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2

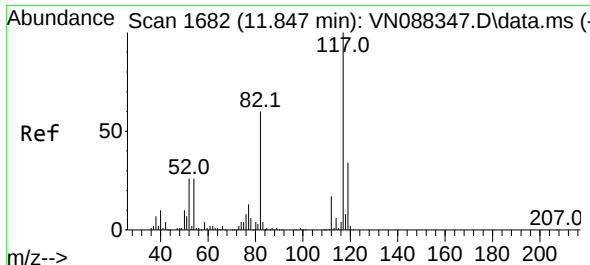
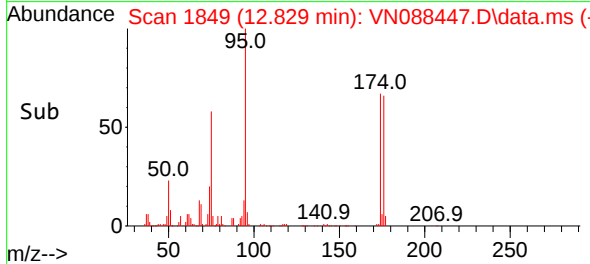
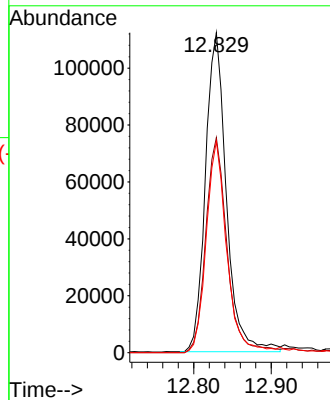
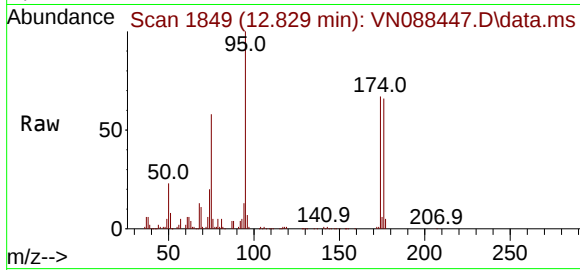




#62
4-Bromofluorobenzene
Concen: 50.800 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

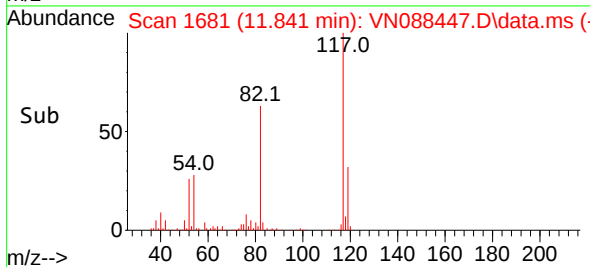
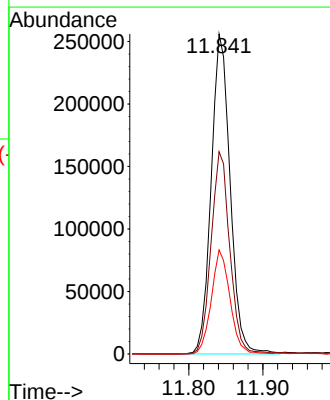
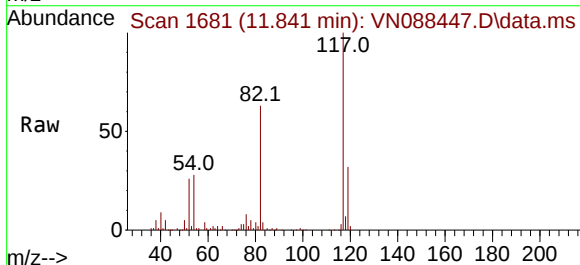
Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

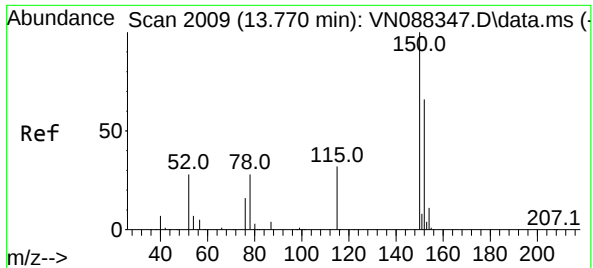
Tgt Ion: 95 Resp: 210748
Ion Ratio Lower Upper
95 100
174 68.2 0.0 139.0
176 64.7 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Tgt Ion: 117 Resp: 455230
Ion Ratio Lower Upper
117 100
82 63.2 47.8 71.8
119 32.5 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN088447.D

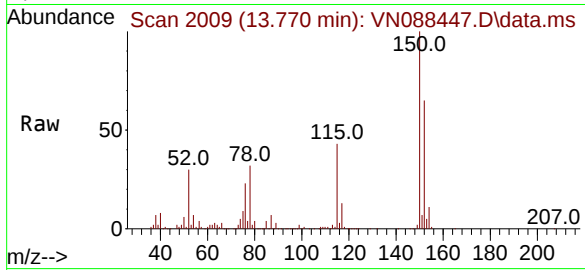
Acq: 04 Dec 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW-04-12-120225



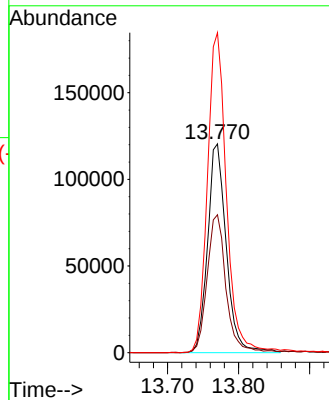
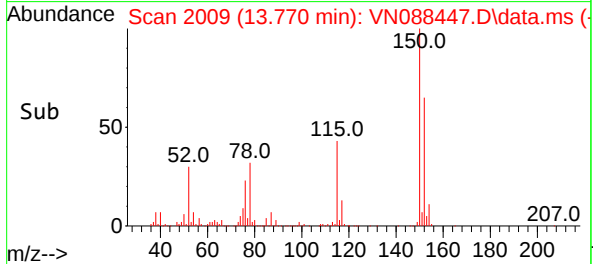
Tgt Ion:152 Resp: 220606

Ion Ratio Lower Upper

152 100

115 66.9 33.0 98.9

150 157.2 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088448.D
Acq On : 04 Dec 2025 16:07
Operator : JC\MD
Sample : Q3756-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 05 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	206071	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	471902	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	469221	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	222578	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	216155	55.682	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.360%
35) Dibromofluoromethane	8.147	113	154264	47.172	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.340%
50) Toluene-d8	10.547	98	550181	45.216	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	90.440%
62) 4-Bromofluorobenzene	12.829	95	211464	50.650	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.300%

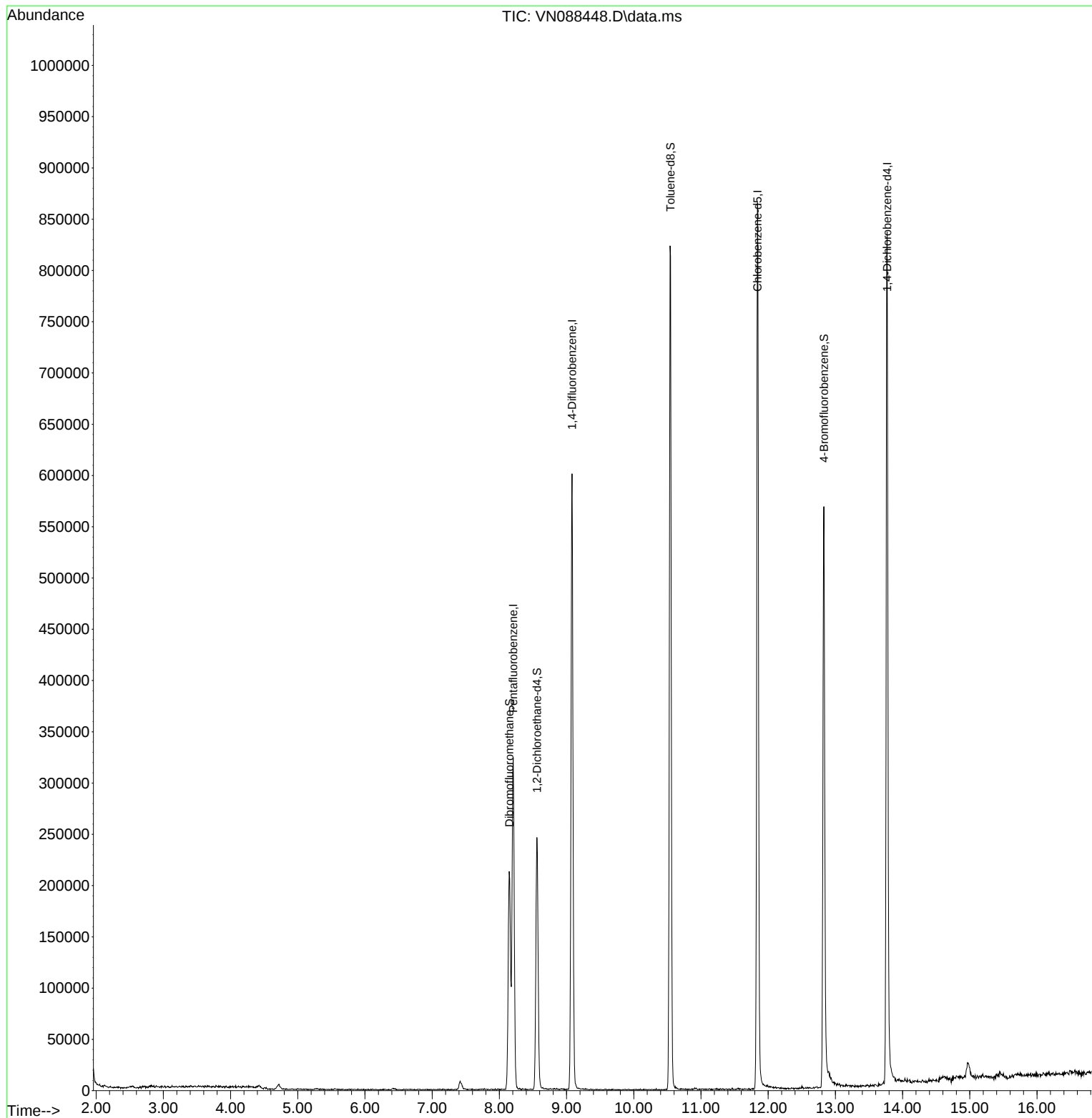
Target Compounds	Qvalue

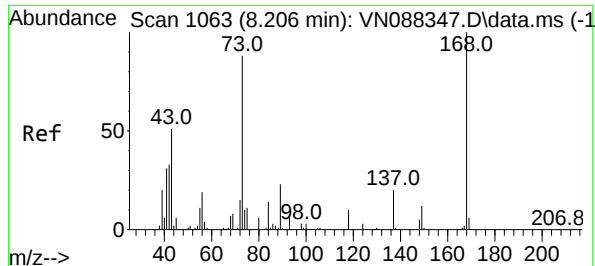
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088448.D
Acq On : 04 Dec 2025 16:07
Operator : JC\MD
Sample : Q3756-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Quant Time: Dec 05 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

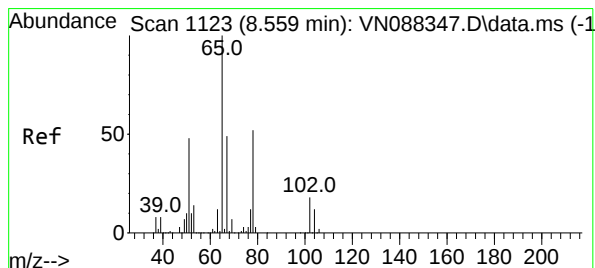
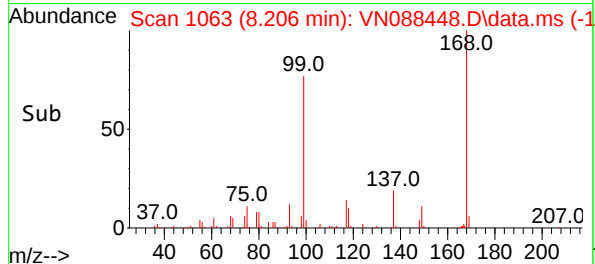
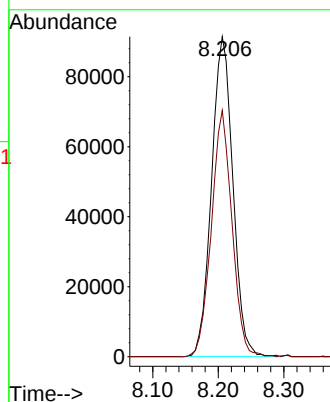
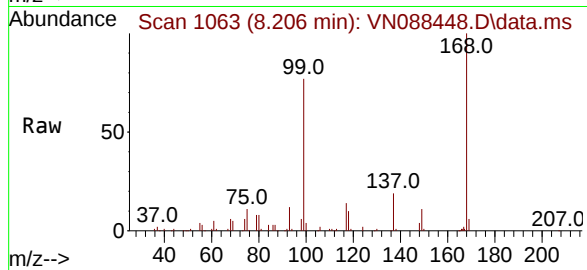




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

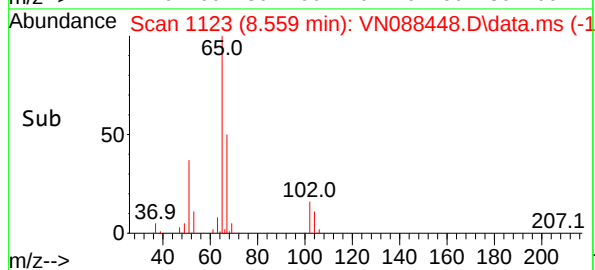
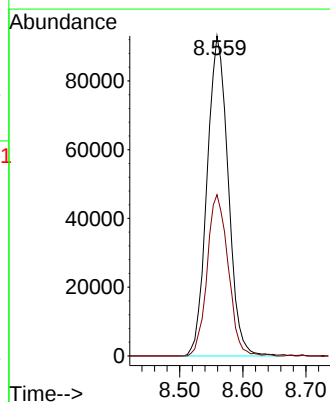
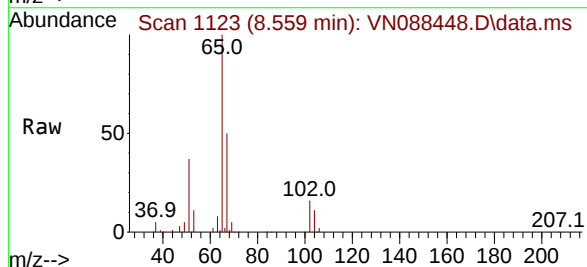
Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

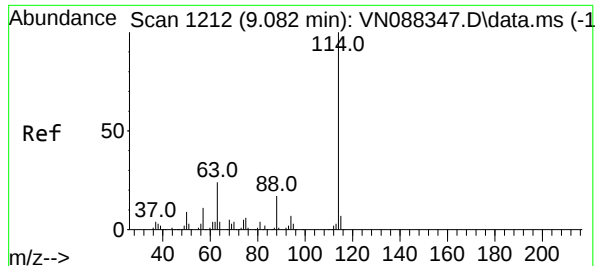
Tgt Ion:168 Resp: 206071
Ion Ratio Lower Upper
168 100
99 76.9 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 55.682 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Tgt Ion: 65 Resp: 216155
Ion Ratio Lower Upper
65 100
67 50.1 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

MW-13B-47.5-120225

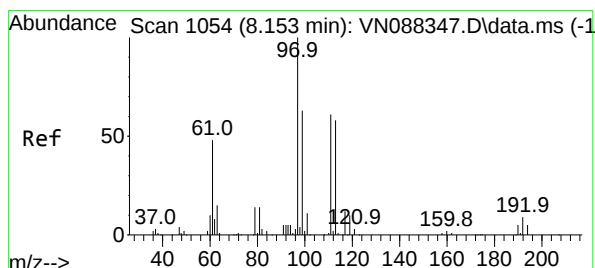
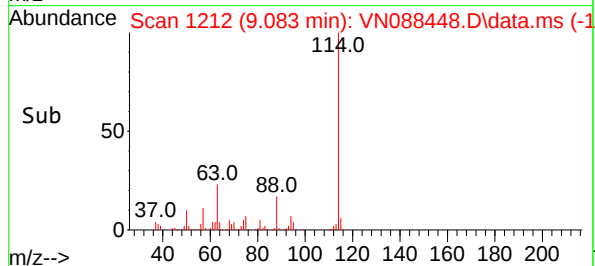
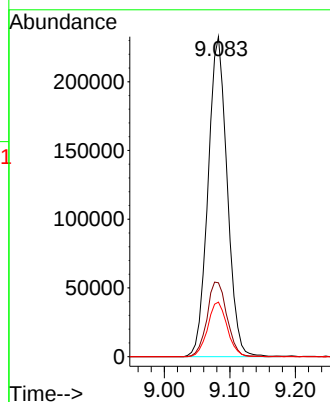
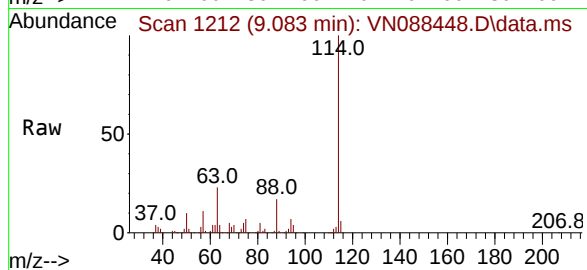
Tgt Ion:114 Resp: 471902

Ion Ratio Lower Upper

114 100

63 23.1 0.0 49.0

88 17.1 0.0 34.0



#35

Dibromofluoromethane

Concen: 47.172 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

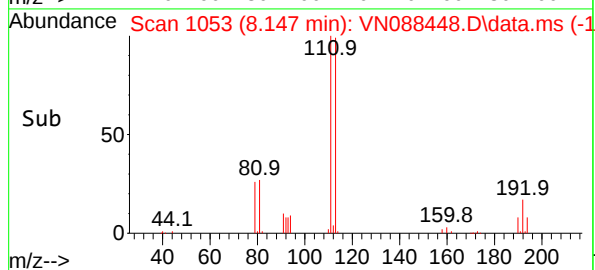
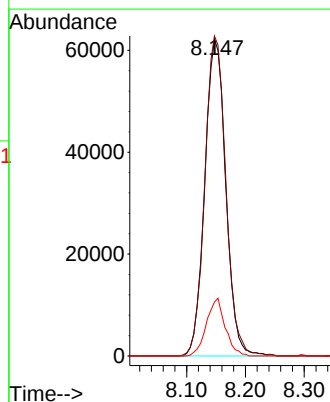
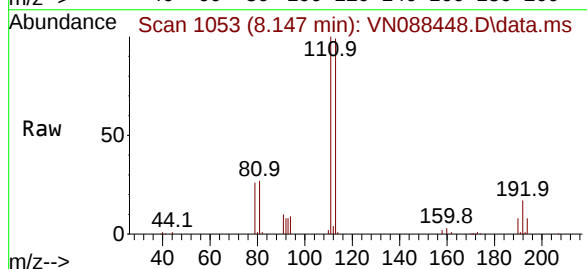
Tgt Ion:113 Resp: 154264

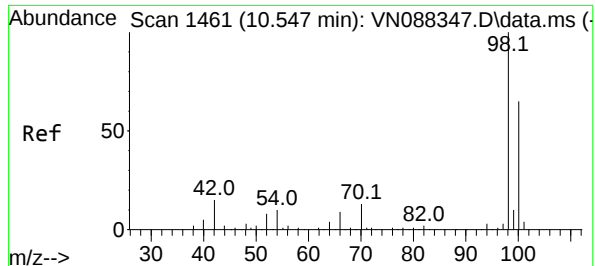
Ion Ratio Lower Upper

113 100

111 101.4 82.5 123.7

192 16.3 12.8 19.2





#50

Toluene-d8

Concen: 45.216 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

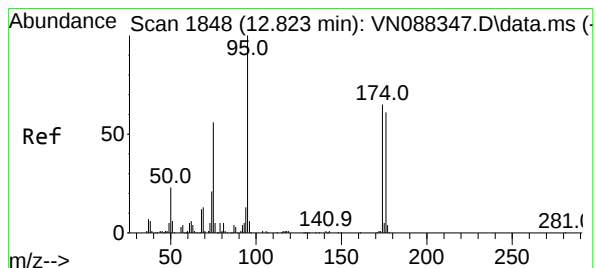
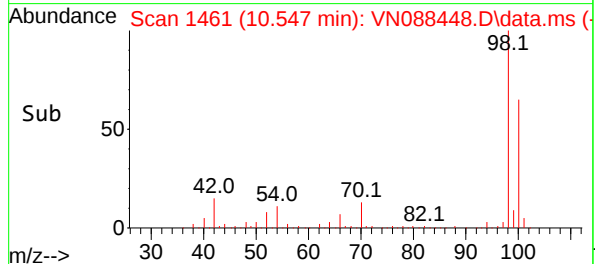
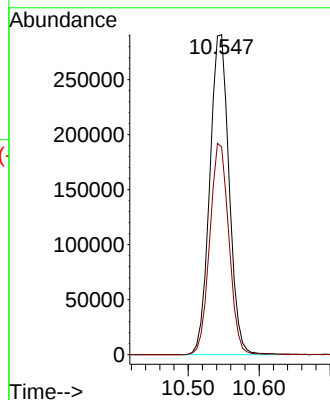
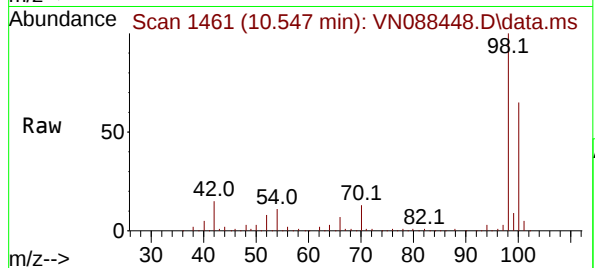
MW-13B-47.5-120225

Tgt Ion: 98 Resp: 550181

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 50.650 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

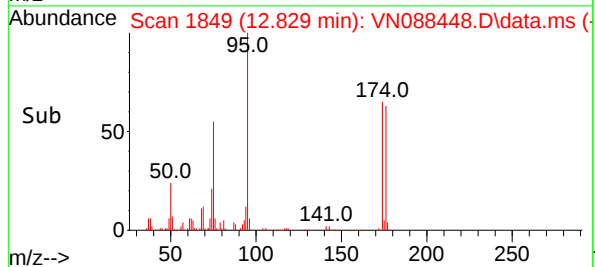
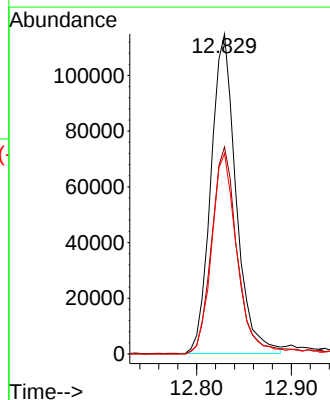
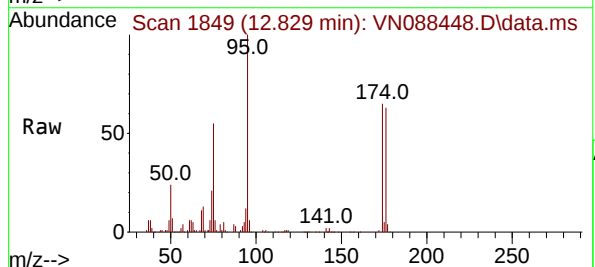
Tgt Ion: 95 Resp: 211464

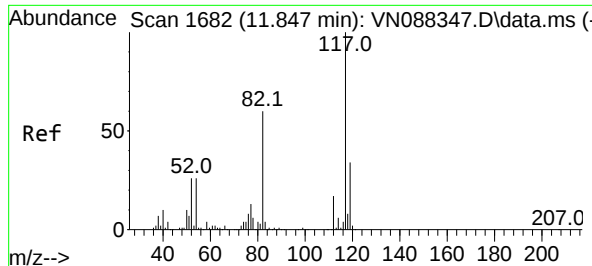
Ion Ratio Lower Upper

95 100

174 68.3 0.0 139.0

176 64.1 0.0 132.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

MW-13B-47.5-120225

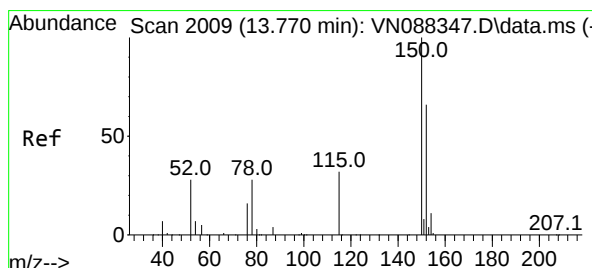
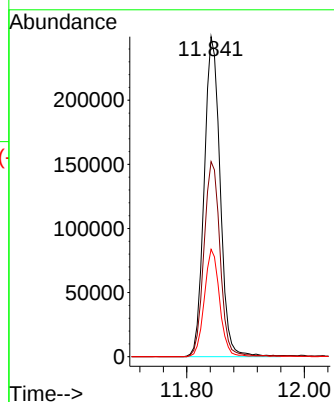
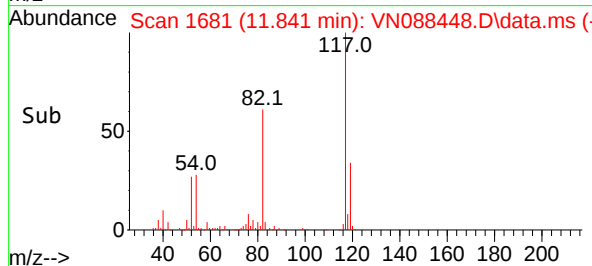
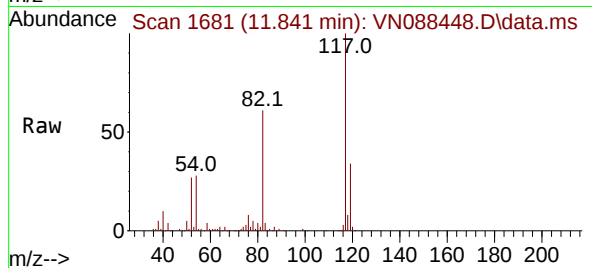
Tgt Ion:117 Resp: 469221

Ion Ratio Lower Upper

117 100

82 60.9 47.8 71.8

119 33.5 26.9 40.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

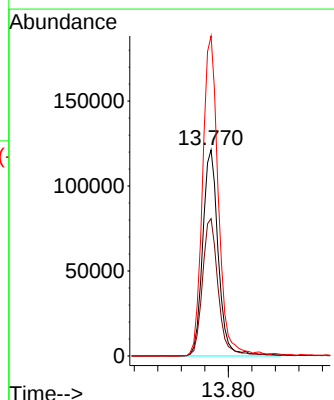
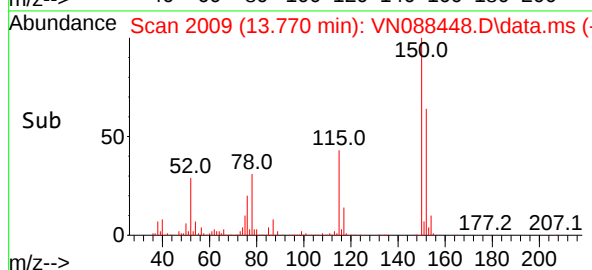
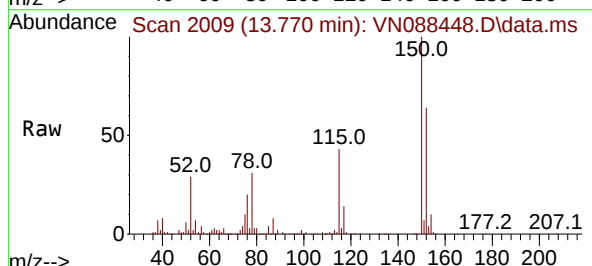
Tgt Ion:152 Resp: 222578

Ion Ratio Lower Upper

152 100

115 67.9 33.0 98.9

150 157.1 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088422.D
Acq On : 03 Dec 2025 12:52
Operator : JC\MD
Sample : Q3756-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Quant Time: Dec 04 00:17:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

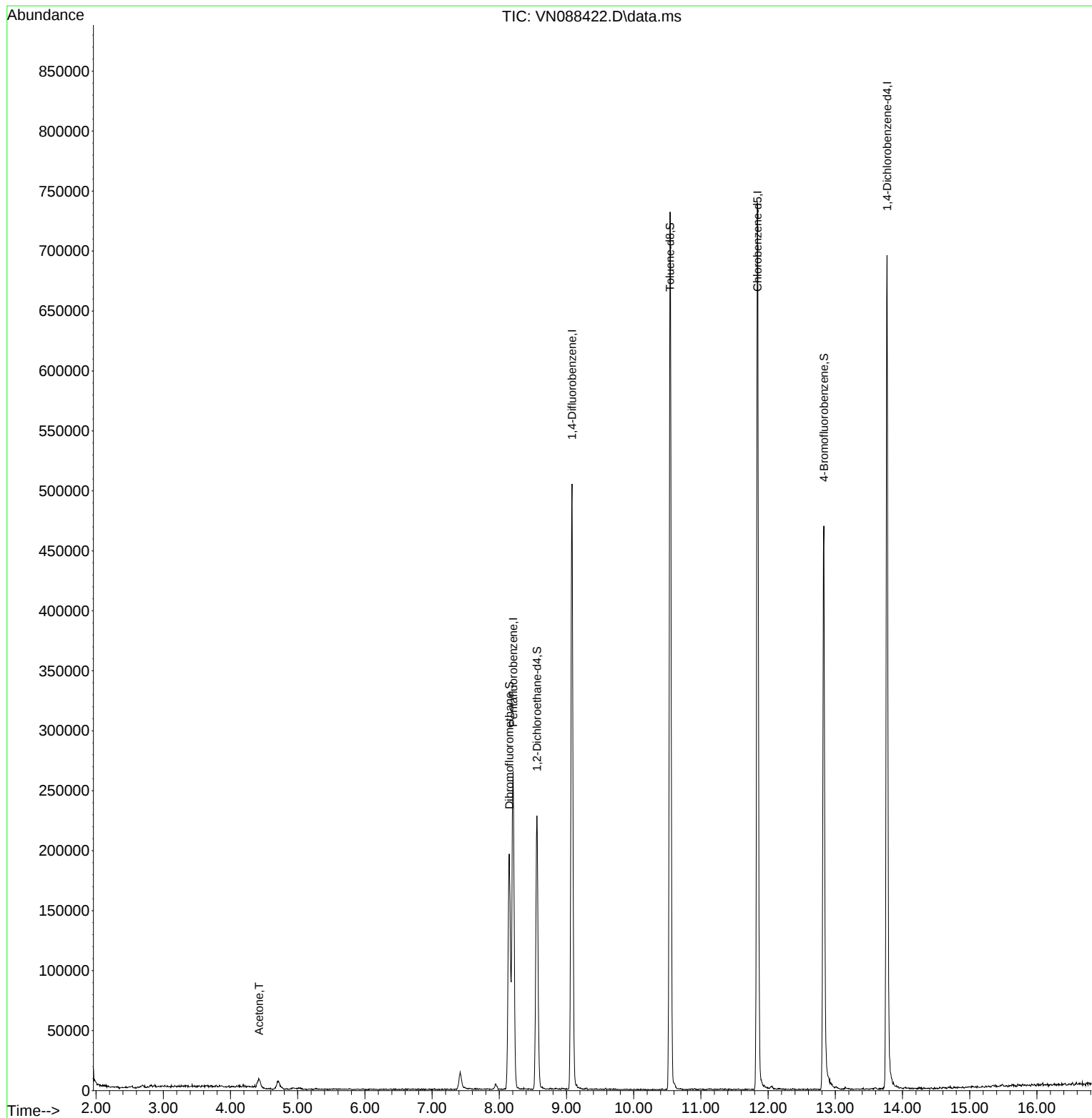
Internal Standards						
1) Pentafluorobenzene	8.206	168	173573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	400248	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	396303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	182664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	192679	58.927	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	117.860%	
35) Dibromofluoromethane	8.147	113	139816	50.408	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	100.820%	
50) Toluene-d8	10.541	98	482687	46.771	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	93.540%	
62) 4-Bromofluorobenzene	12.829	95	172026	48.580	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	97.160%	
Target Compounds						
16) Acetone	4.424	43	16363	13.837	ug/l	Qvalue 99

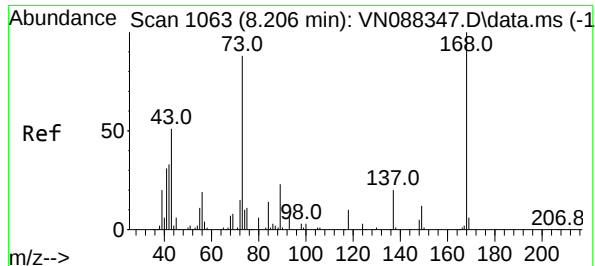
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088422.D
Acq On : 03 Dec 2025 12:52
Operator : JC\MD
Sample : Q3756-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Quant Time: Dec 04 00:17:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

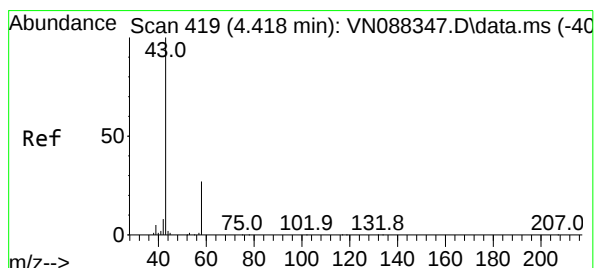
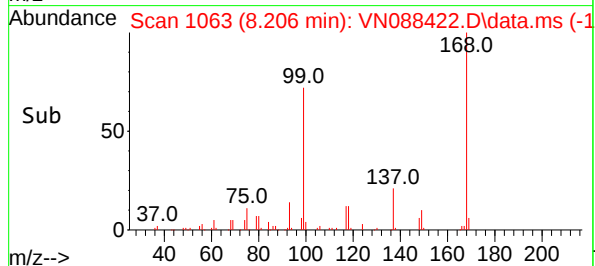
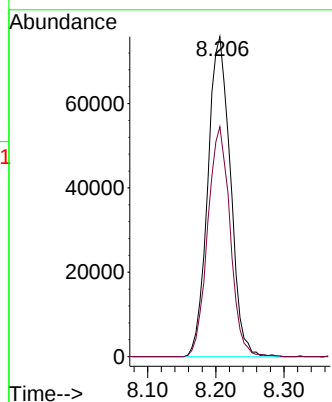
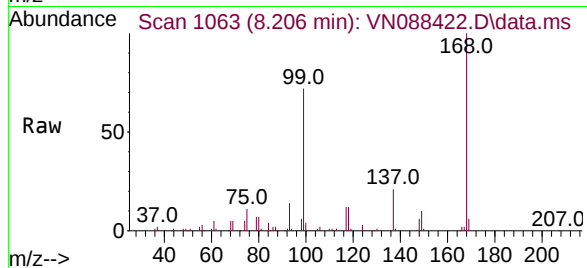




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

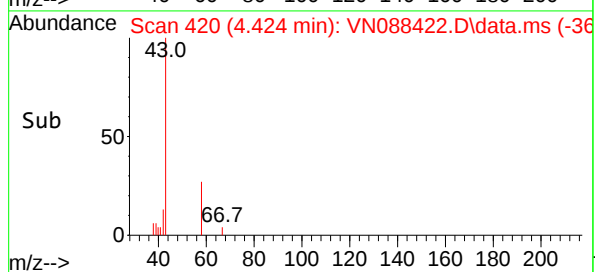
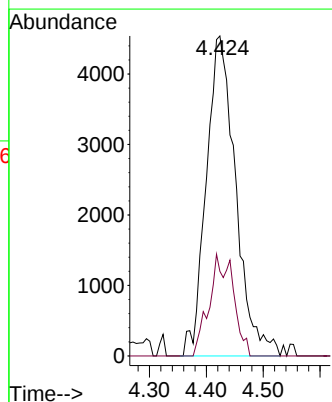
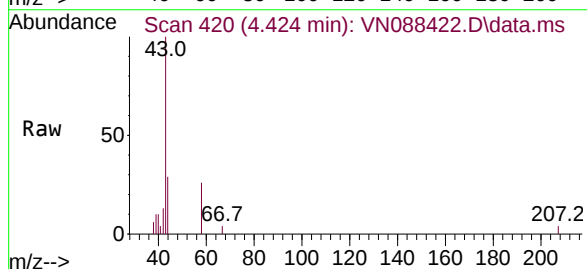
Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

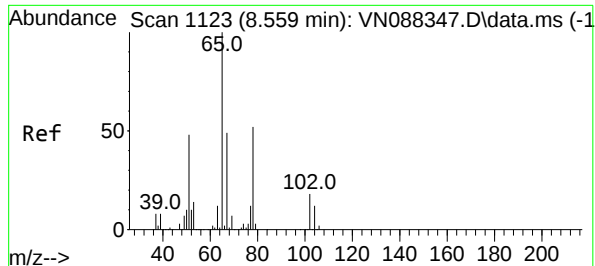
Tgt Ion:168 Resp: 173573
Ion Ratio Lower Upper
168 100
99 71.8 57.1 85.7



#16
Acetone
Concen: 13.837 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Tgt Ion: 43 Resp: 16363
Ion Ratio Lower Upper
43 100
58 26.4 21.7 32.5





#33

1,2-Dichloroethane-d4

Concen: 58.927 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088422.D

Acq: 03 Dec 2025 12:52

Instrument :

MSVOA_N

ClientSampleId :

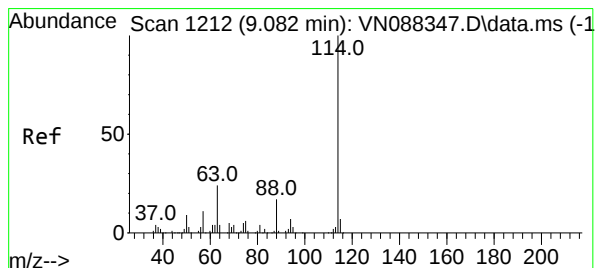
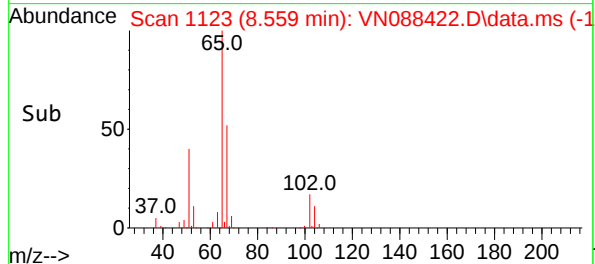
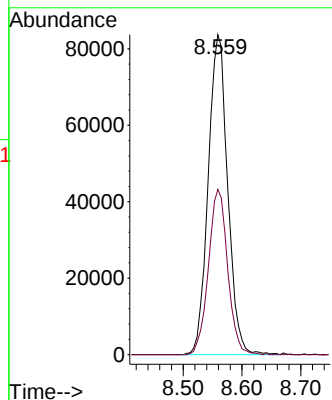
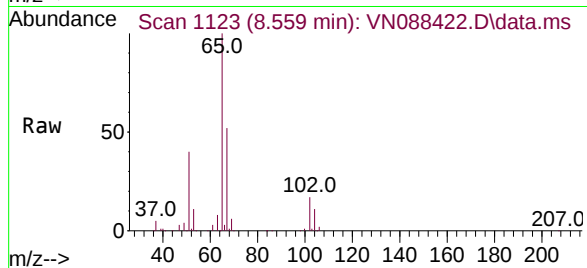
EB01-120225

Tgt Ion: 65 Resp: 192679

Ion Ratio Lower Upper

65 100

67 50.9 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088422.D

Acq: 03 Dec 2025 12:52

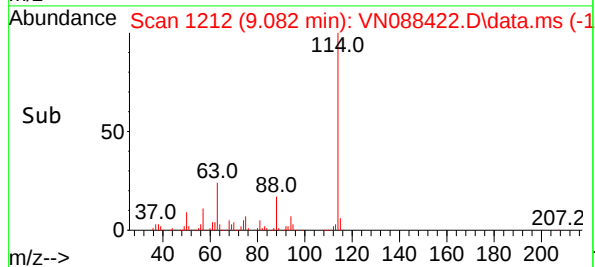
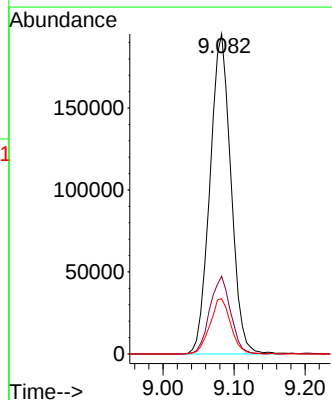
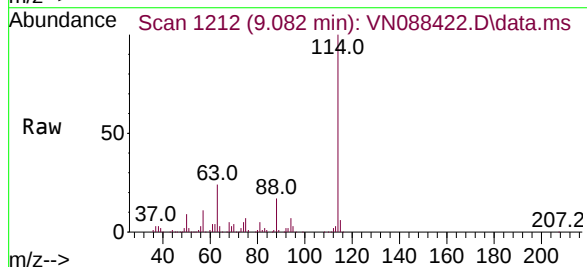
Tgt Ion: 114 Resp: 400248

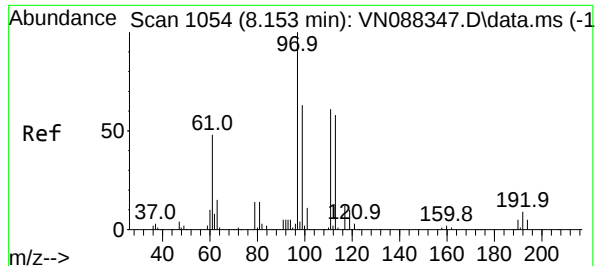
Ion Ratio Lower Upper

114 100

63 24.3 0.0 49.0

88 17.2 0.0 34.0





#35

Dibromofluoromethane

Concen: 50.408 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088422.D

Acq: 03 Dec 2025 12:52

Instrument :

MSVOA_N

ClientSampleId :

EB01-120225

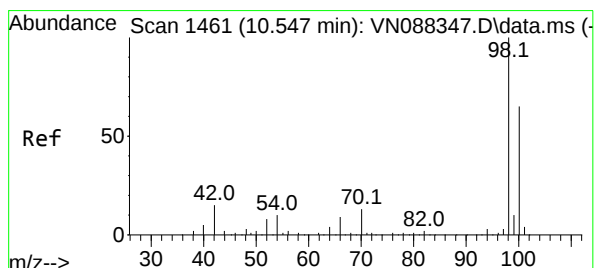
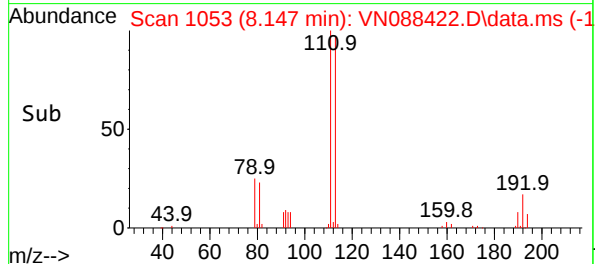
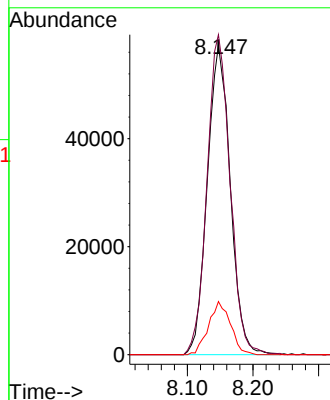
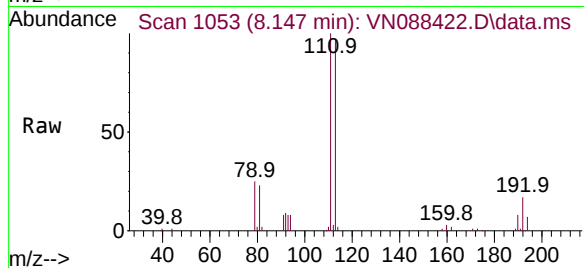
Tgt Ion:113 Resp: 139816

Ion Ratio Lower Upper

113 100

111 103.4 82.5 123.7

192 16.3 12.8 19.2



#50

Toluene-d8

Concen: 46.771 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088422.D

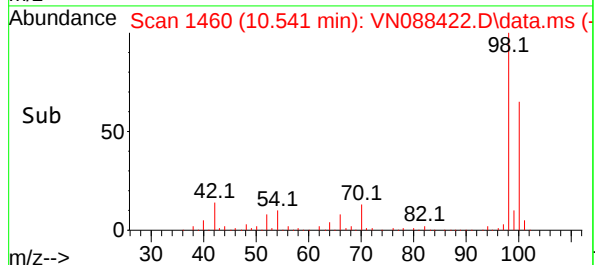
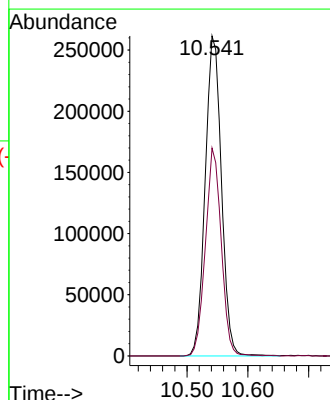
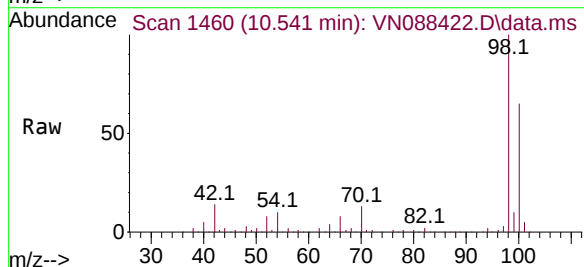
Acq: 03 Dec 2025 12:52

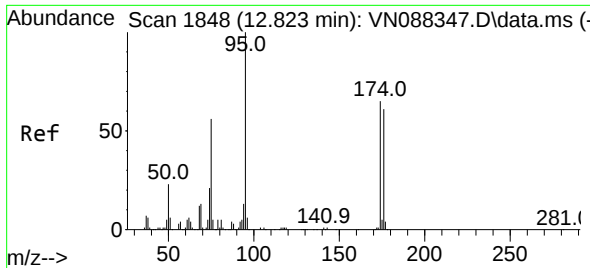
Tgt Ion: 98 Resp: 482687

Ion Ratio Lower Upper

98 100

100 63.4 52.2 78.2

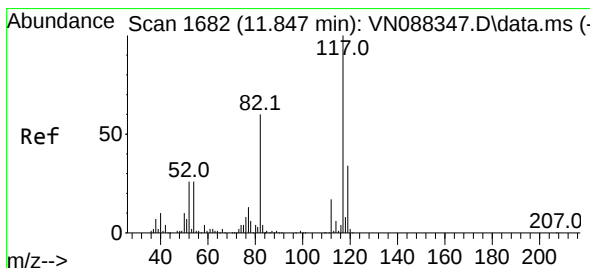
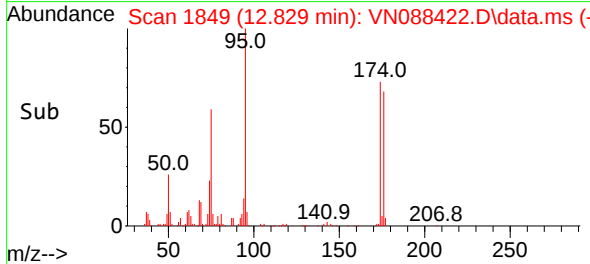
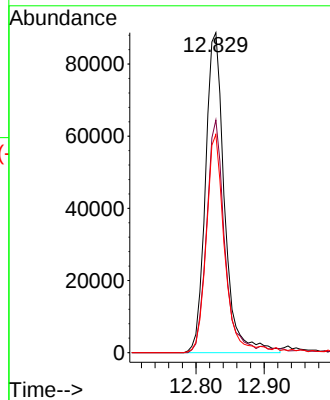
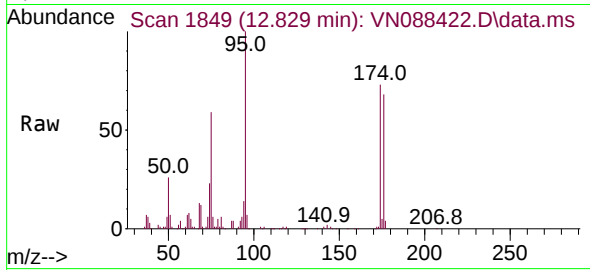




#62
4-Bromofluorobenzene
Concen: 48.580 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

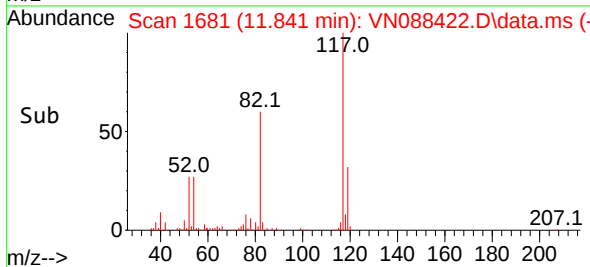
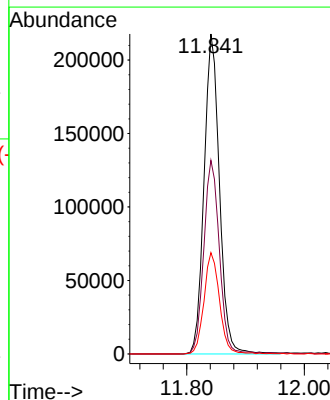
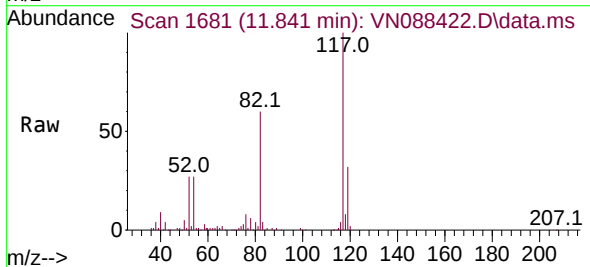
Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

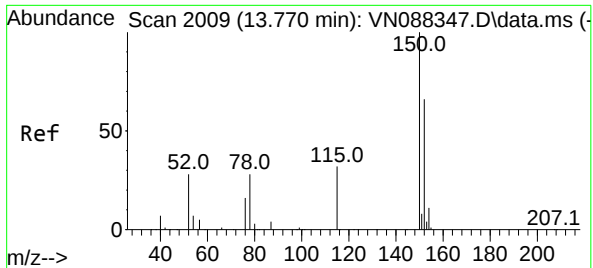
Tgt Ion: 95 Resp: 172026
Ion Ratio Lower Upper
95 100
174 68.3 0.0 139.0
176 65.4 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Tgt Ion: 117 Resp: 396303
Ion Ratio Lower Upper
117 100
82 60.5 47.8 71.8
119 31.6 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN088422.D

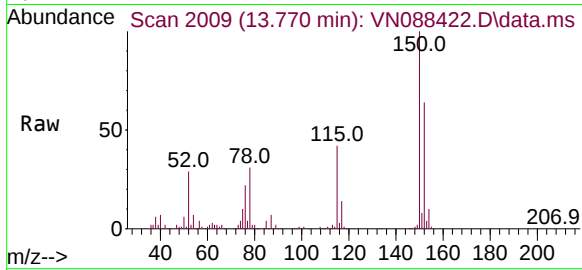
Acq: 03 Dec 2025 12:52

Instrument :

MSVOA_N

ClientSampleId :

EB01-120225



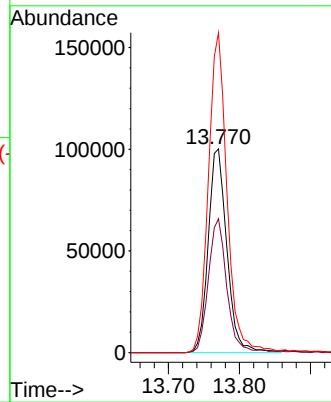
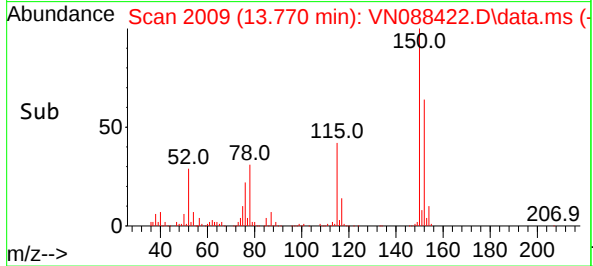
Tgt Ion:152 Resp: 182664

Ion Ratio Lower Upper

152 100

115 65.3 33.0 98.9

150 157.8 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088423.D
 Acq On : 03 Dec 2025 13:12
 Operator : JC\MD
 Sample : Q3756-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB01-120225

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Quant Time: Dec 04 00:17:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	192200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	468050	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	464764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	219360	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	237154	65.500	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	131.000%#
35) Dibromofluoromethane	8.147	113	167987	51.791	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.580%
50) Toluene-d8	10.541	98	581457	48.179	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.360%
62) 4-Bromofluorobenzene	12.829	95	210648	50.869	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.740%

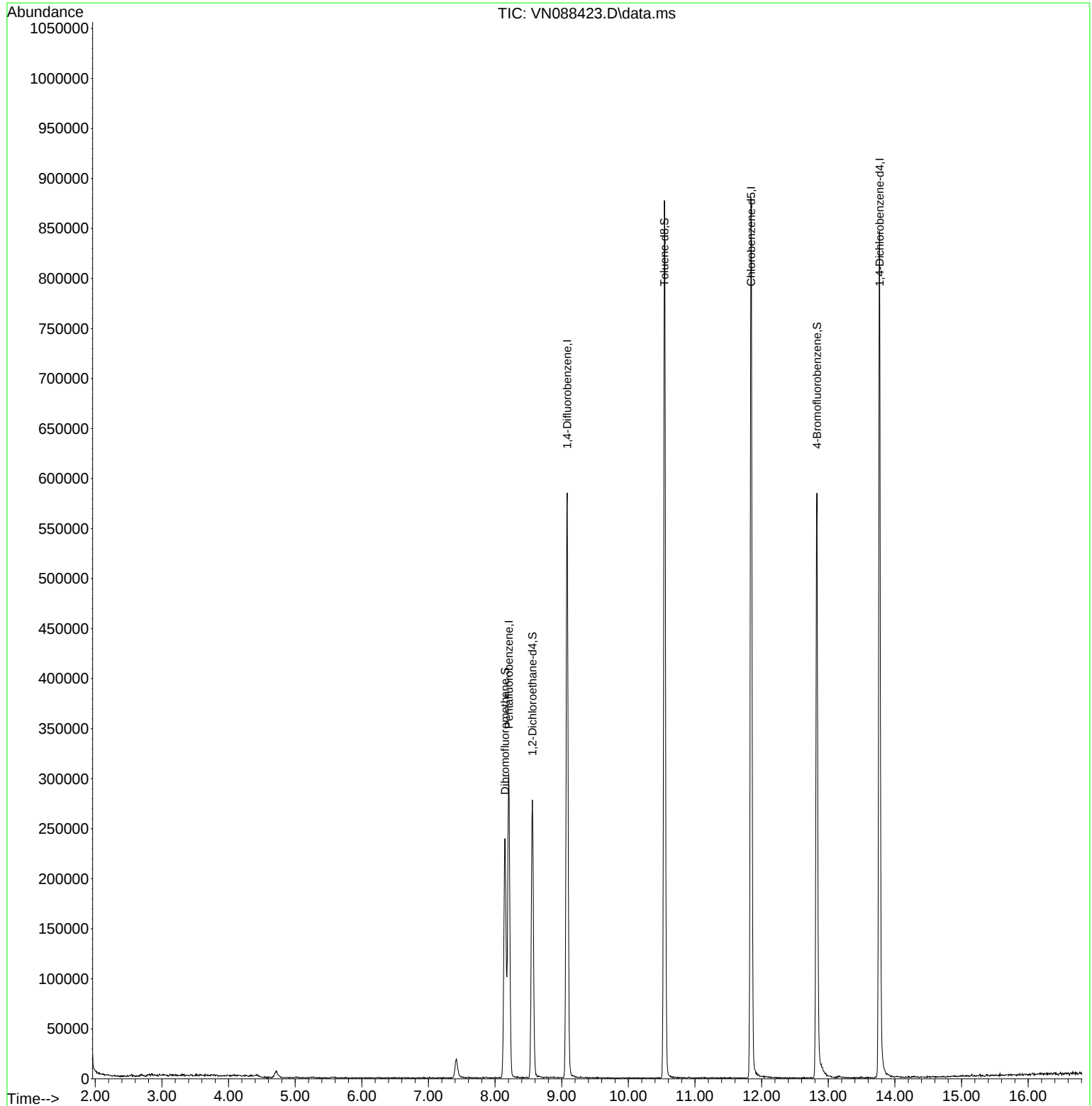
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

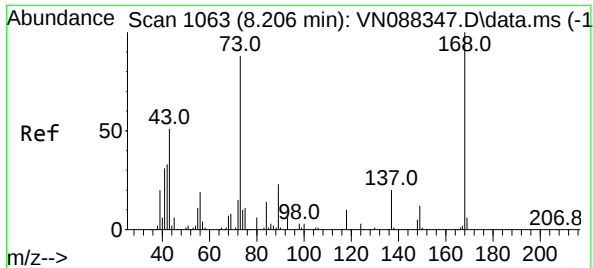
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088423.D
Acq On : 03 Dec 2025 13:12
Operator : JC\MD
Sample : Q3756-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Quant Time: Dec 04 00:17:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



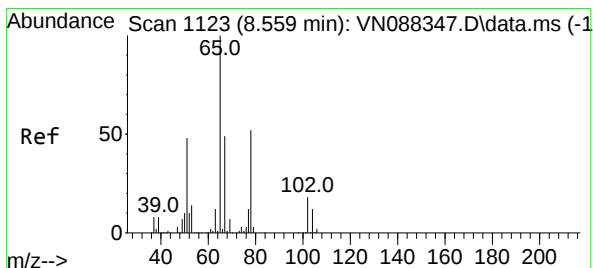
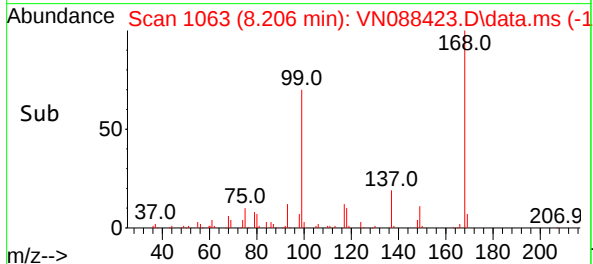
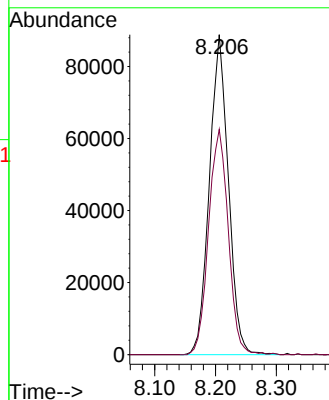
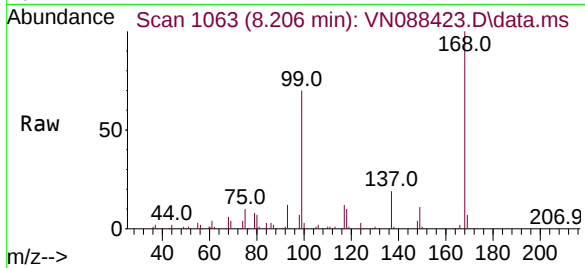
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#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

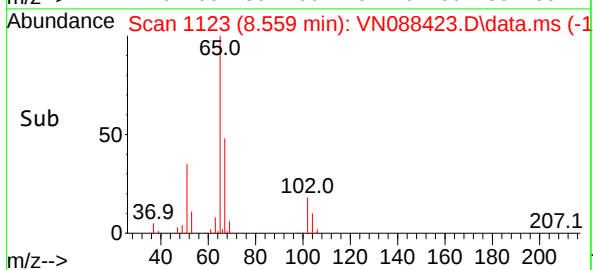
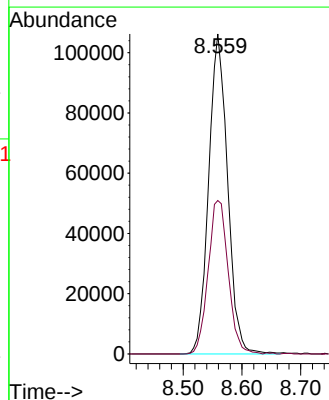
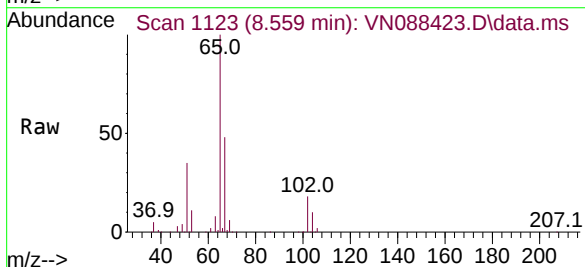
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

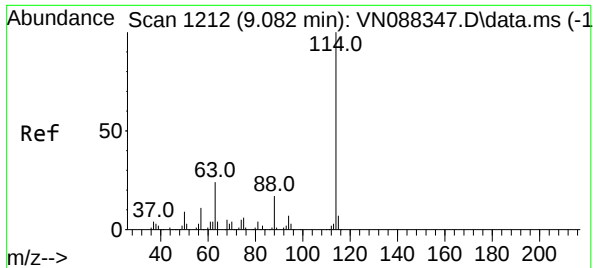
Tgt Ion:168 Resp: 192200
Ion Ratio Lower Upper
168 100
99 70.4 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 65.500 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Tgt Ion: 65 Resp: 237154
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088423.D

Acq: 03 Dec 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

TB01-120225

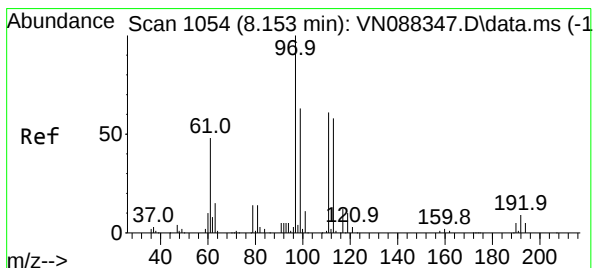
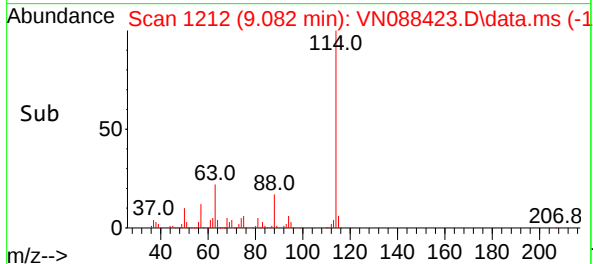
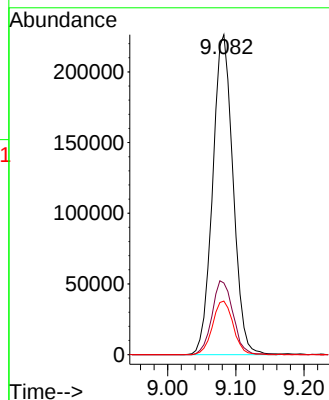
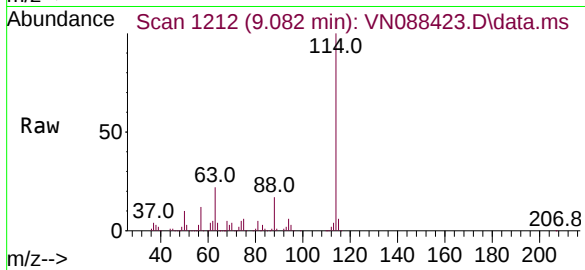
Tgt Ion:114 Resp: 468050

Ion Ratio Lower Upper

114 100

63 22.4 0.0 49.0

88 16.7 0.0 34.0



#35

Dibromofluoromethane

Concen: 51.791 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088423.D

Acq: 03 Dec 2025 13:12

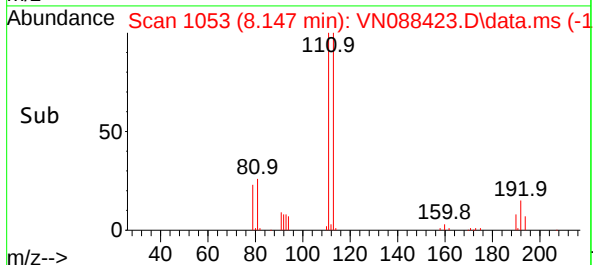
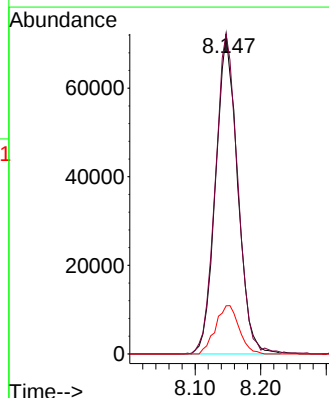
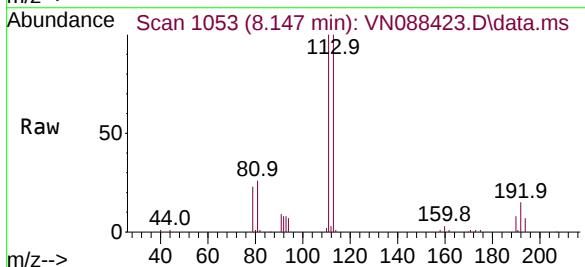
Tgt Ion:113 Resp: 167987

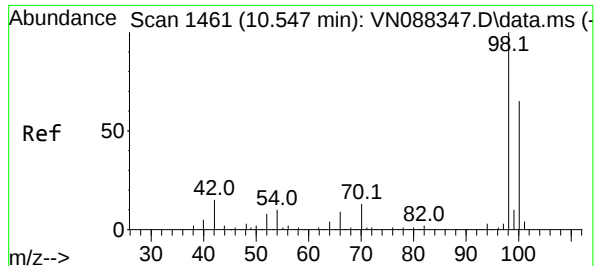
Ion Ratio Lower Upper

113 100

111 102.4 82.5 123.7

192 16.1 12.8 19.2





#50

Toluene-d8

Concen: 48.179 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088423.D

Acq: 03 Dec 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

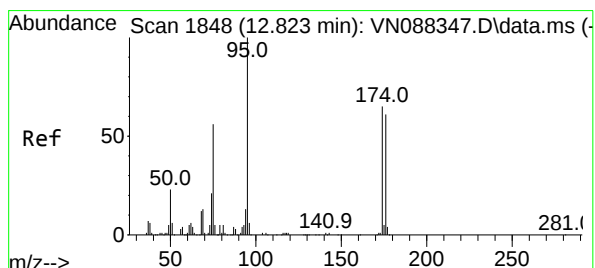
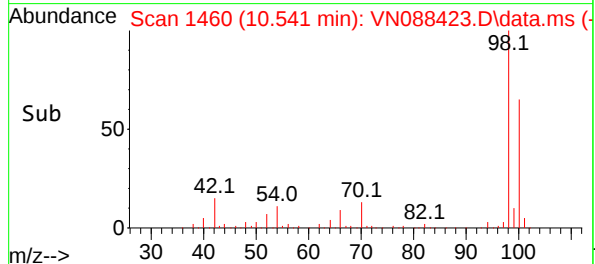
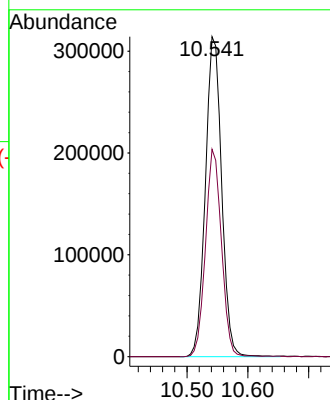
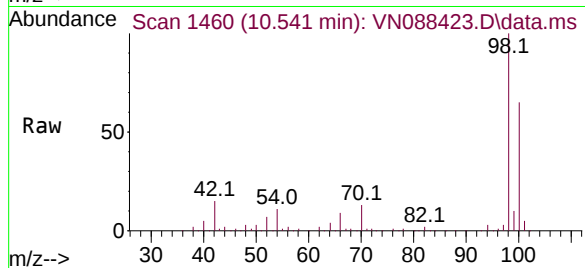
TB01-120225

Tgt Ion: 98 Resp: 581457

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 50.869 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088423.D

Acq: 03 Dec 2025 13:12

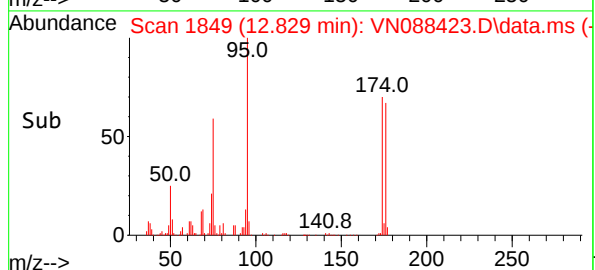
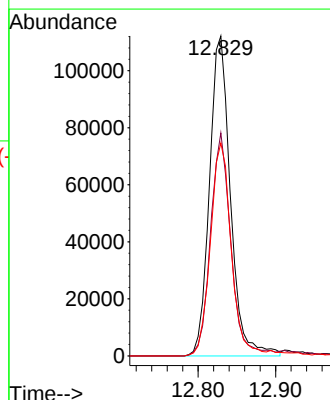
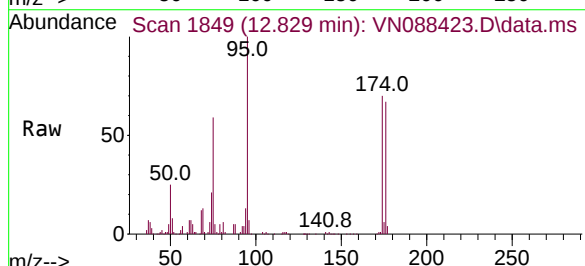
Tgt Ion: 95 Resp: 210648

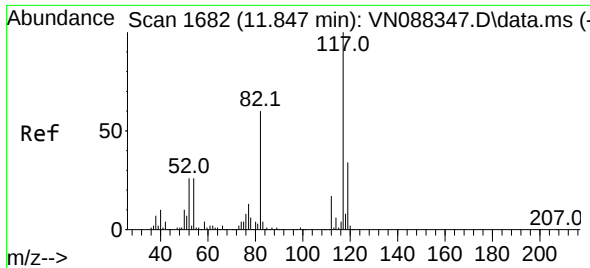
Ion Ratio Lower Upper

95 100

174 67.5 0.0 139.0

176 65.8 0.0 132.4

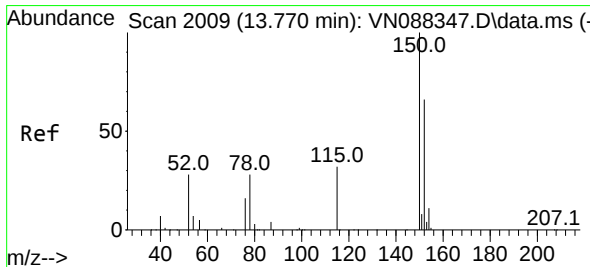
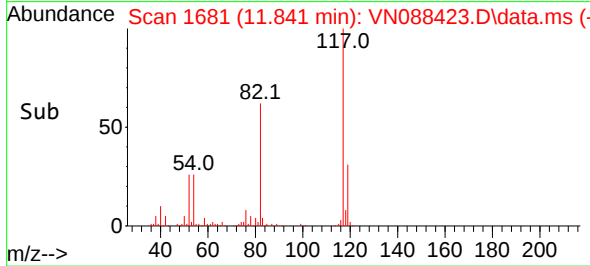
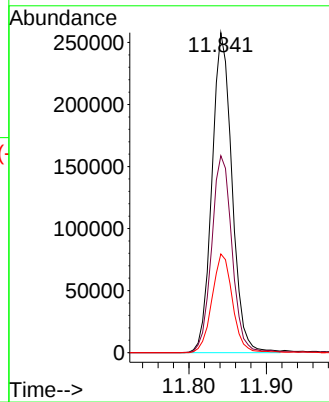
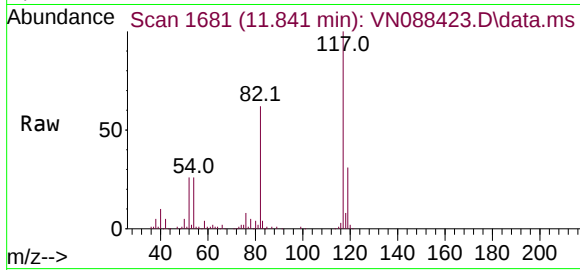




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

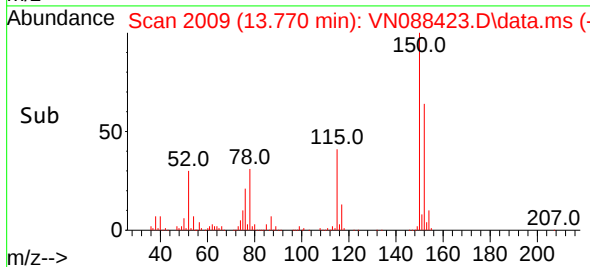
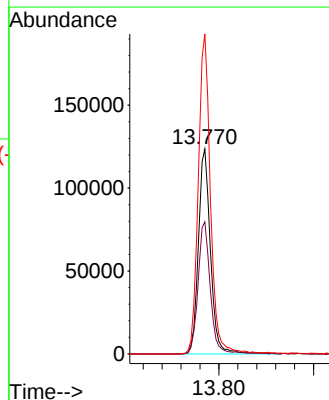
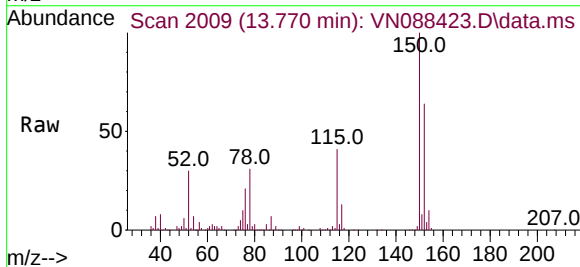
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.5	47.8	71.8
119	30.8	26.9	40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.9	33.0	98.9
150	157.0	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088434.D
 Acq On : 03 Dec 2025 16:58
 Operator : JC\MD
 Sample : Q3756-10RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB01-120225RE

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Quant Time: Dec 04 00:23:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	223956	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	518301	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	518638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	245675	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	230323	54.593	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	109.180%
35) Dibromofluoromethane	8.147	113	160791	44.766	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.540%
50) Toluene-d8	10.547	98	560829	41.965	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	83.920%#
62) 4-Bromofluorobenzene	12.829	95	202134	44.081	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	88.160%

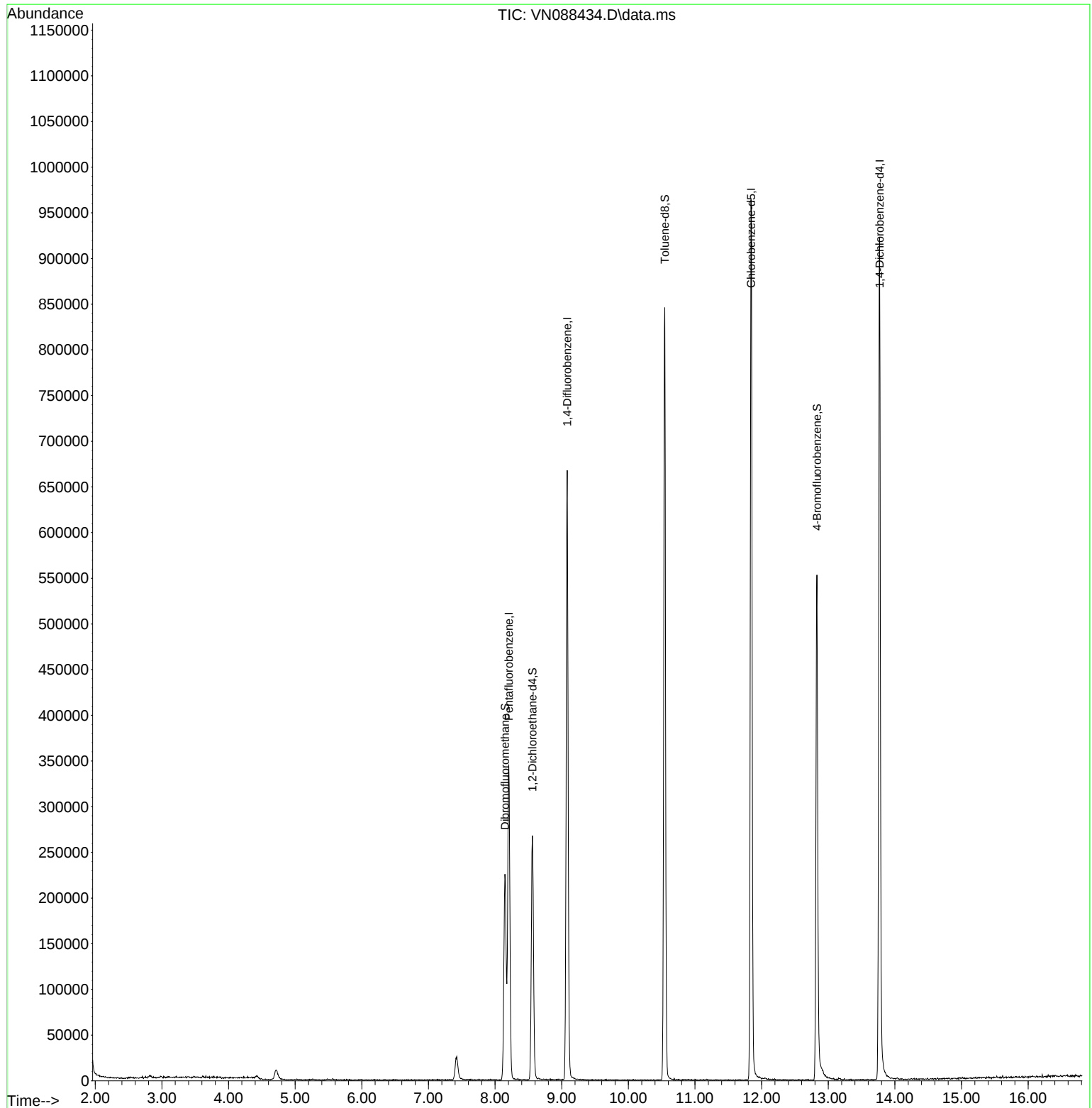
Target Compounds	Qvalue

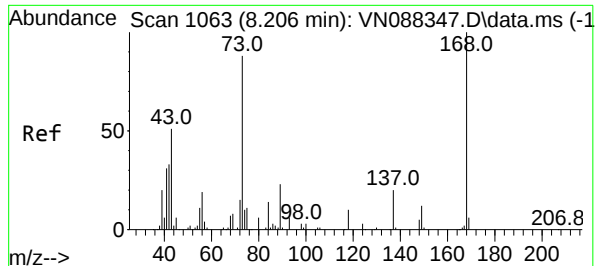
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088434.D
Acq On : 03 Dec 2025 16:58
Operator : JC\MD
Sample : Q3756-10RE
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Quant Time: Dec 04 00:23:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

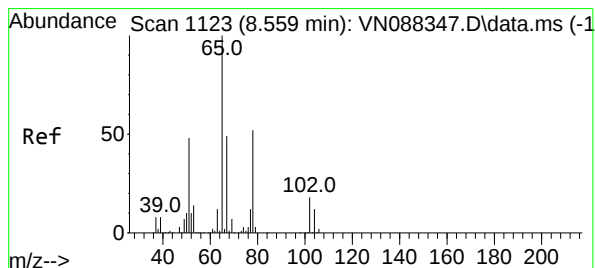
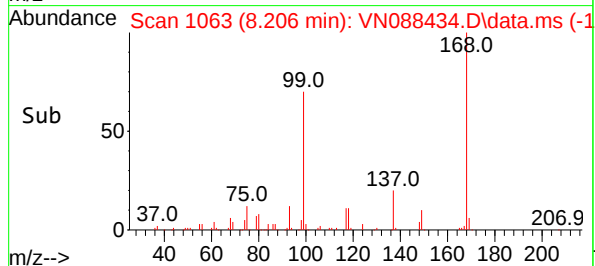
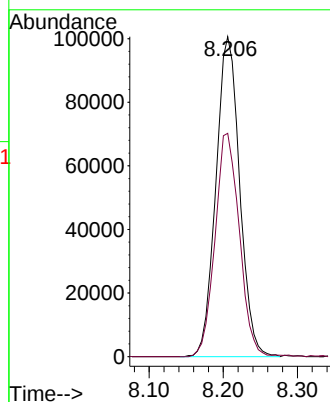
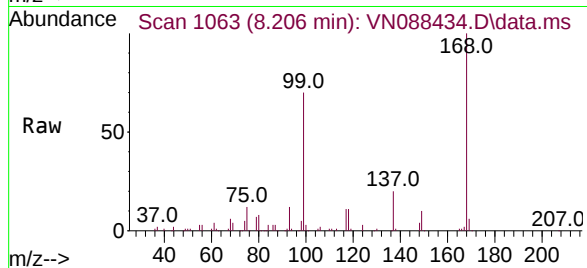




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

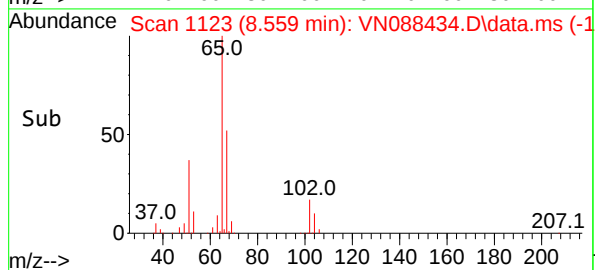
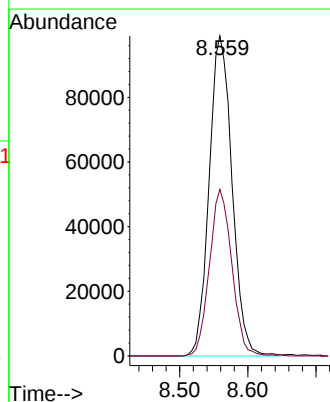
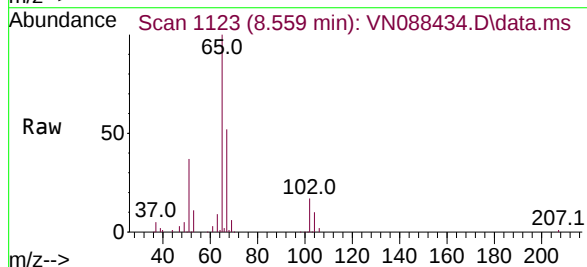
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

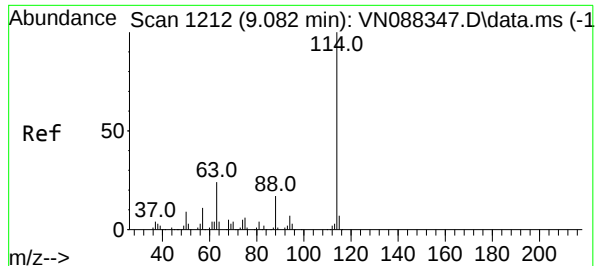
Tgt Ion:168 Resp: 223956
Ion Ratio Lower Upper
168 100
99 69.8 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 54.593 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion: 65 Resp: 230323
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088434.D

Acq: 03 Dec 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

TB01-120225RE

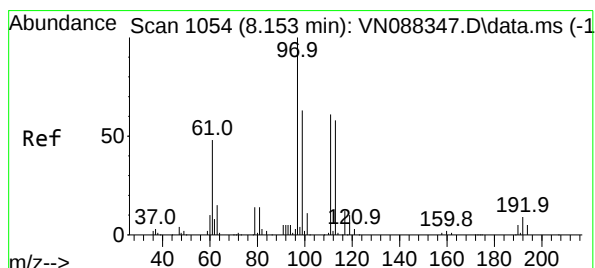
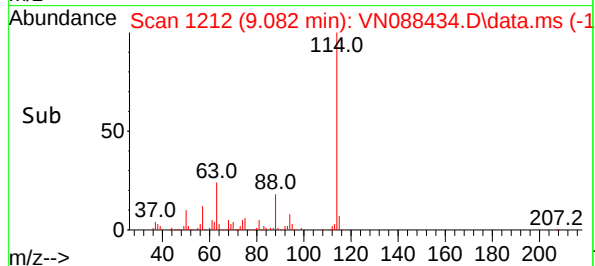
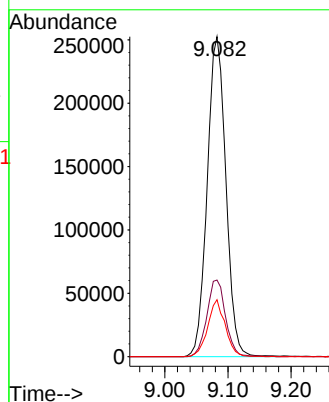
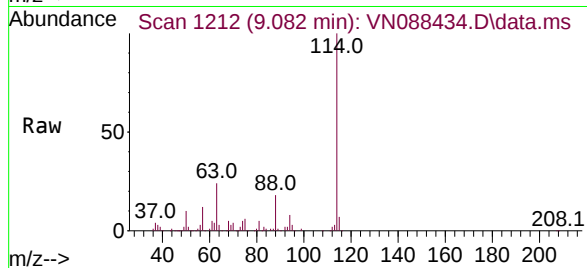
Tgt Ion:114 Resp: 518301

Ion Ratio Lower Upper

114 100

63 23.9 0.0 49.0

88 17.8 0.0 34.0



#35

Dibromofluoromethane

Concen: 44.766 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088434.D

Acq: 03 Dec 2025 16:58

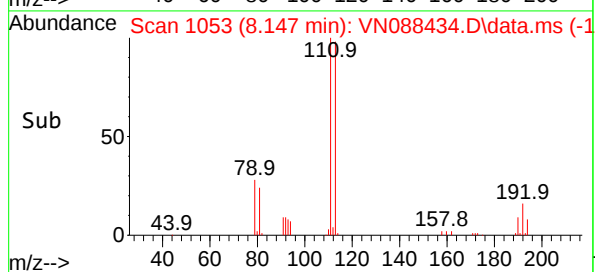
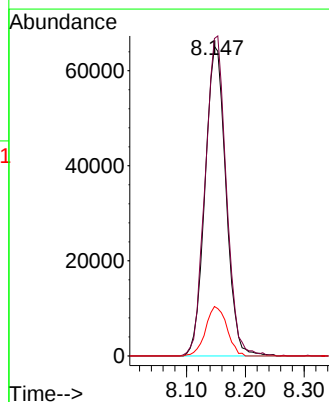
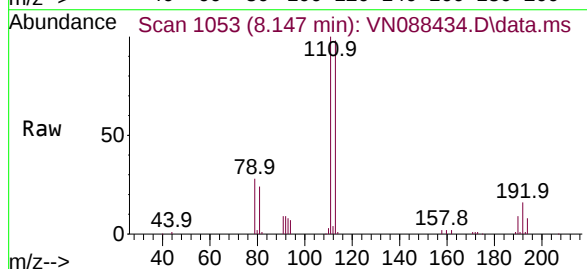
Tgt Ion:113 Resp: 160791

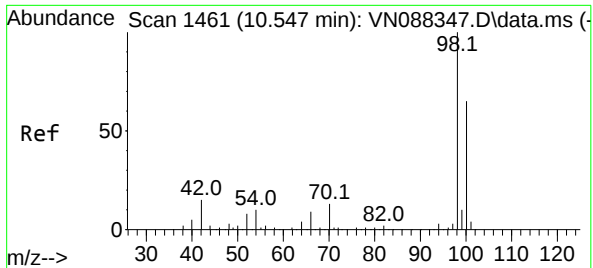
Ion Ratio Lower Upper

113 100

111 104.6 82.5 123.7

192 16.2 12.8 19.2

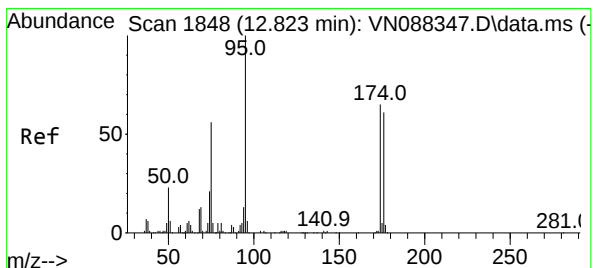
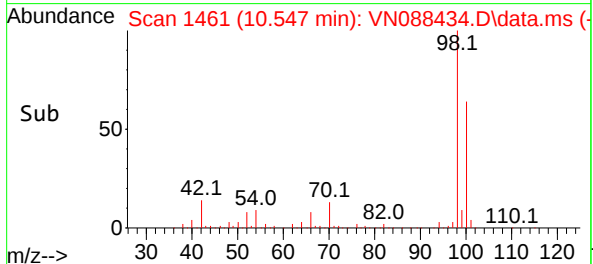
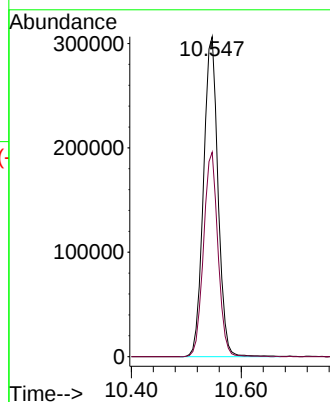
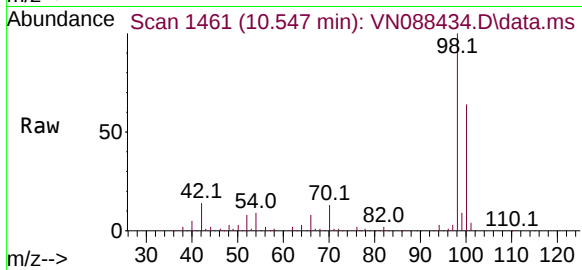




#50
Toluene-d8
Concen: 41.965 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

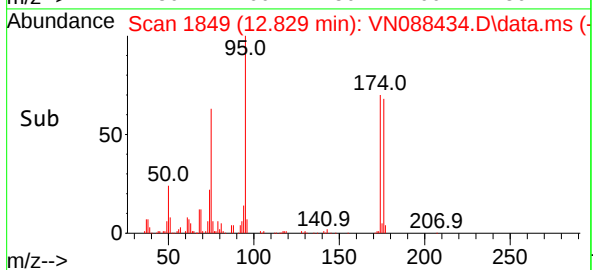
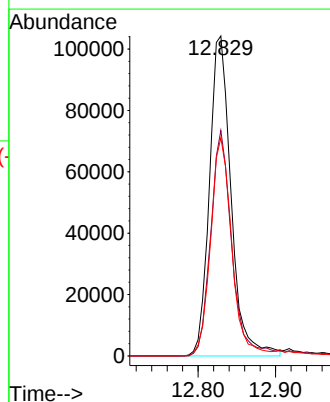
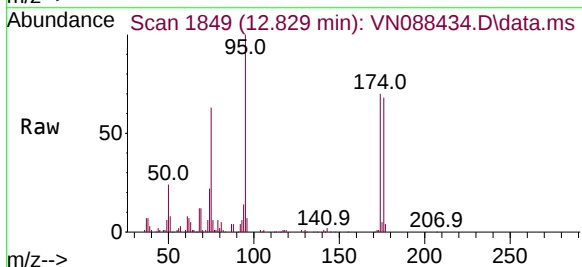
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

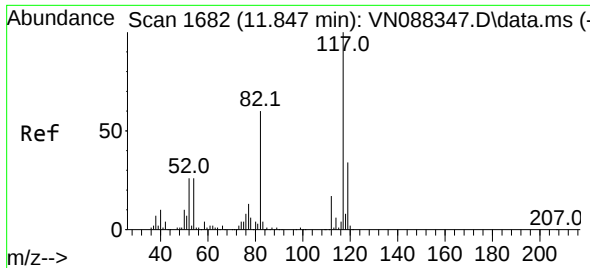
Tgt Ion: 98 Resp: 560829
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 44.081 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion: 95 Resp: 202134
Ion Ratio Lower Upper
95 100
174 69.0 0.0 139.0
176 66.4 0.0 132.4

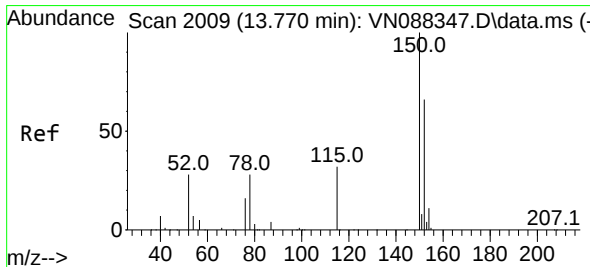
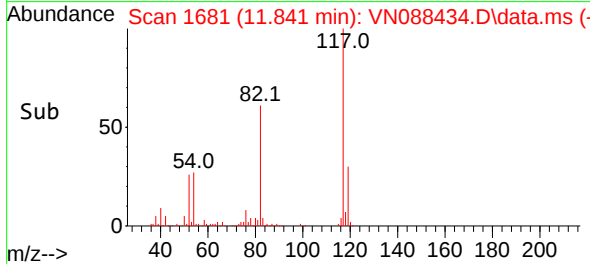
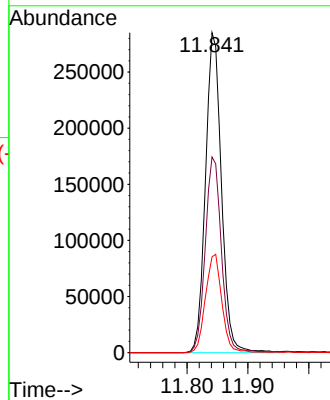
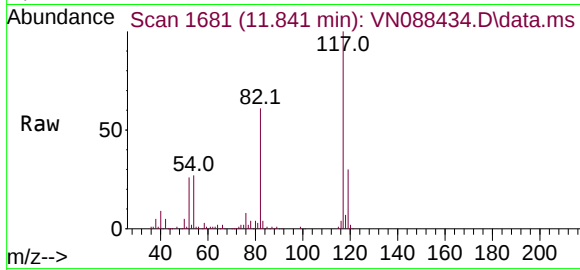




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

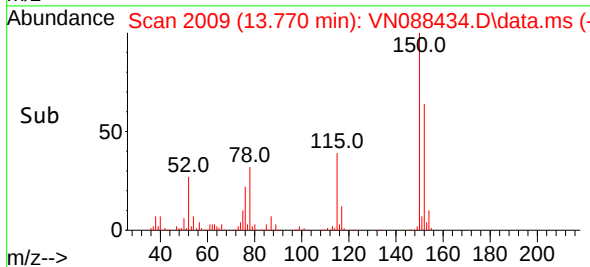
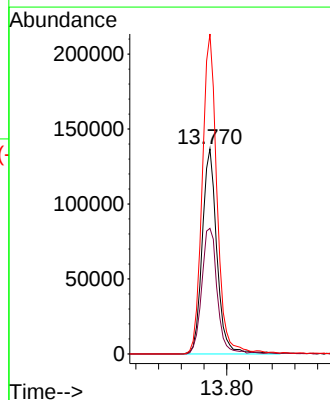
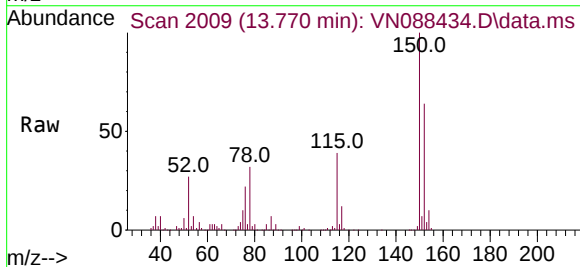
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Tgt Ion:	117	Resp:	518638
Ion Ratio	Lower	Upper	
117	100		
82	61.1	47.8	71.8
119	29.9	26.9	40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion:	152	Resp:	245675
Ion Ratio	Lower	Upper	
152	100		
115	64.1	33.0	98.9
150	155.8	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088418.D
Acq On : 03 Dec 2025 11:03
Operator : JC\MD
Sample : VN1203WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

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Quant Time: Dec 04 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	179578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	416539	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	402638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	186090	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	201444	59.548	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	119.100%
35) Dibromofluoromethane	8.147	113	146402	50.718	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.440%
50) Toluene-d8	10.541	98	511270	47.603	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.200%
62) 4-Bromofluorobenzene	12.829	95	173481	47.075	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.140%

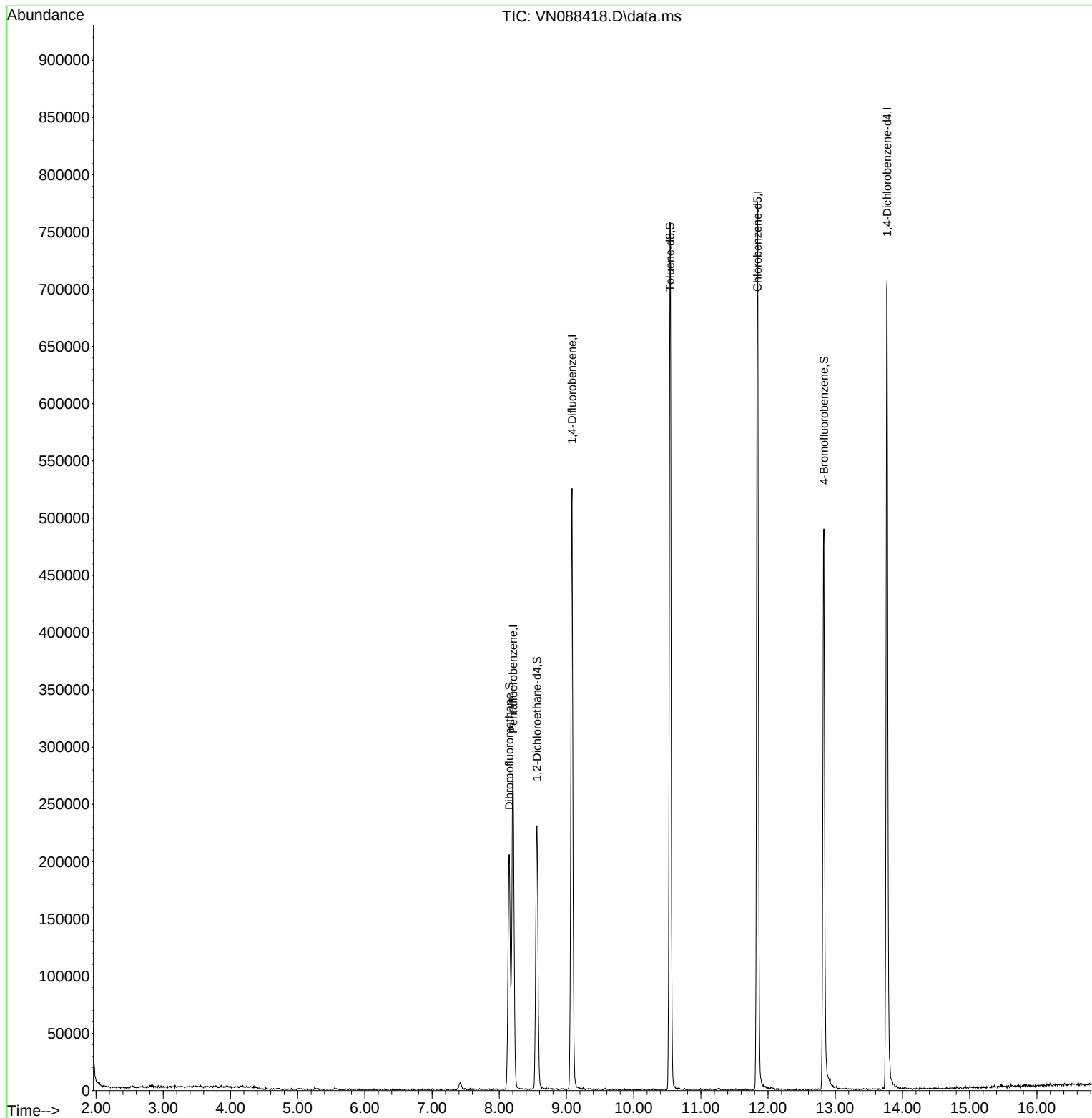
Target Compounds	Qvalue

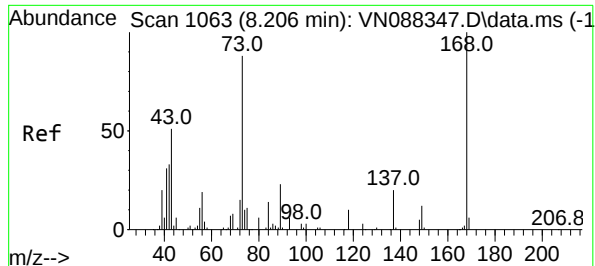
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088418.D
Acq On : 03 Dec 2025 11:03
Operator : JC\MD
Sample : VN1203WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Quant Time: Dec 04 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

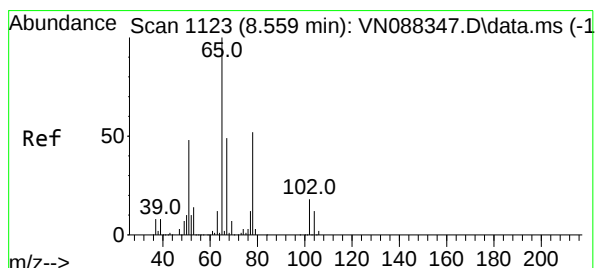
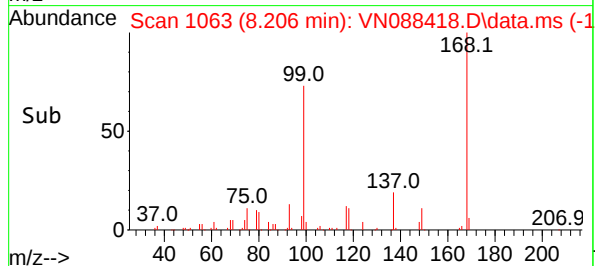
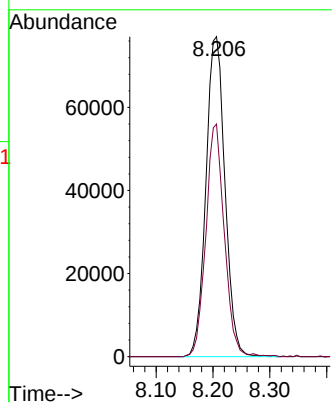
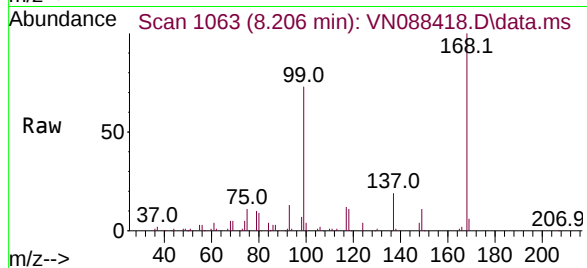




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

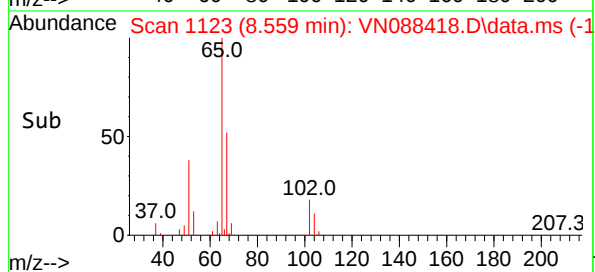
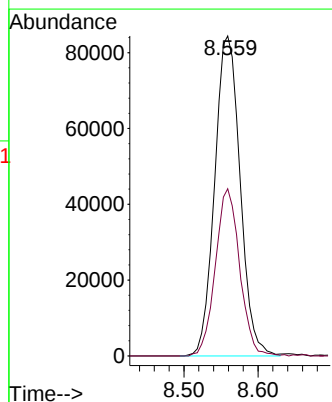
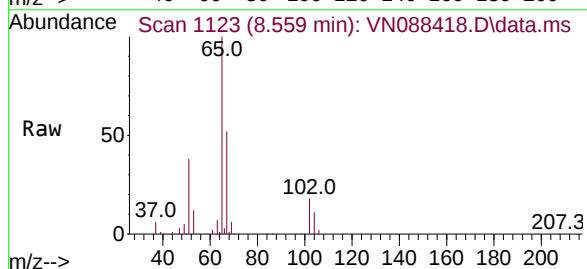
Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

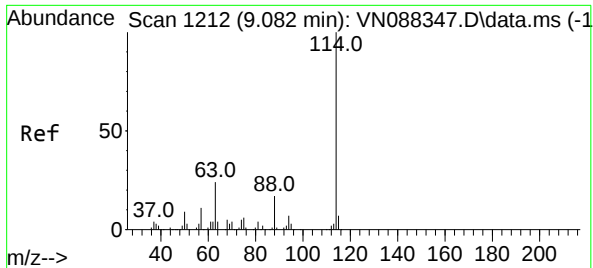
Tgt Ion:168 Resp: 179578
Ion Ratio Lower Upper
168 100
99 72.7 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 59.548 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion: 65 Resp: 201444
Ion Ratio Lower Upper
65 100
67 49.9 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088418.D

Acq: 03 Dec 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

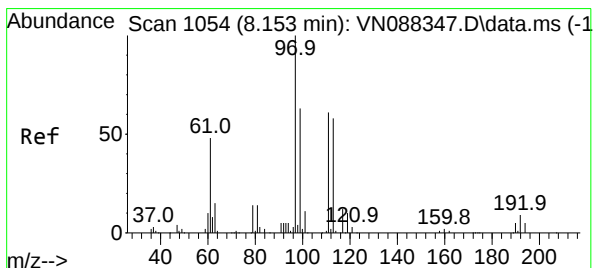
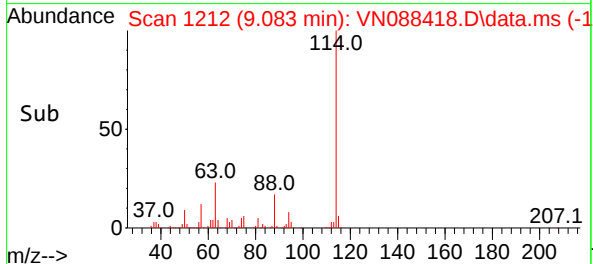
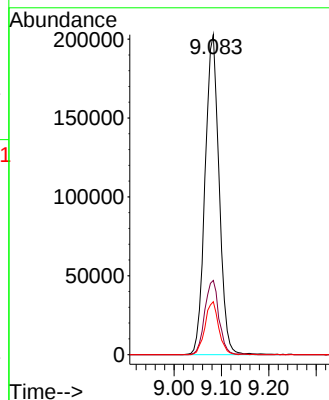
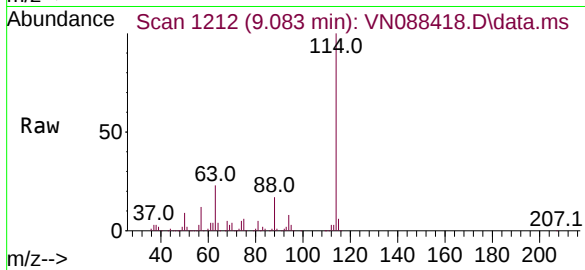
Tgt Ion:114 Resp: 416539

Ion Ratio Lower Upper

114 100

63 23.2 0.0 49.0

88 16.5 0.0 34.0



#35

Dibromofluoromethane

Concen: 50.718 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088418.D

Acq: 03 Dec 2025 11:03

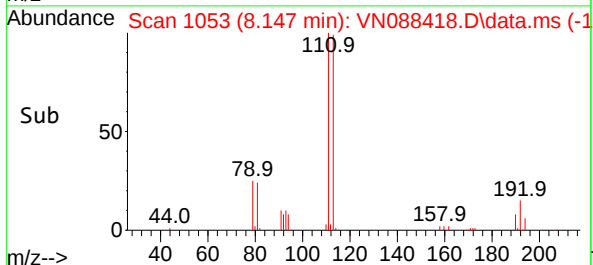
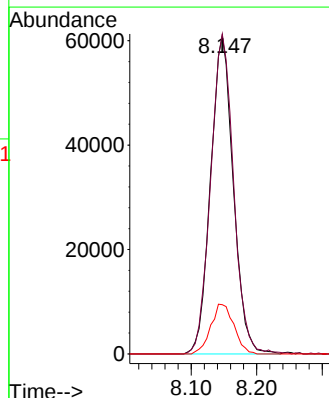
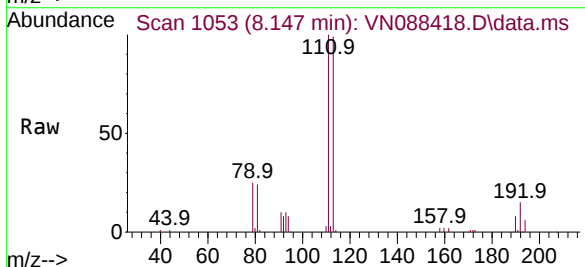
Tgt Ion:113 Resp: 146402

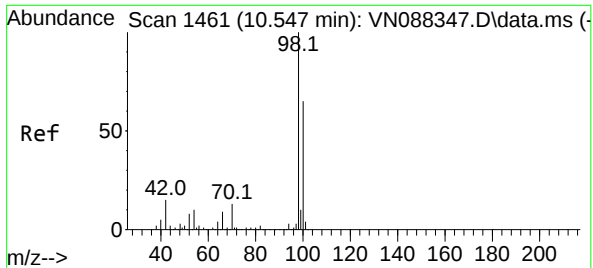
Ion Ratio Lower Upper

113 100

111 101.7 82.5 123.7

192 15.9 12.8 19.2

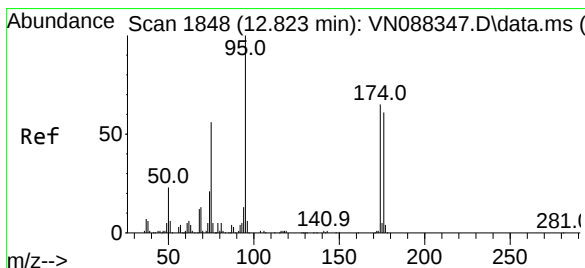
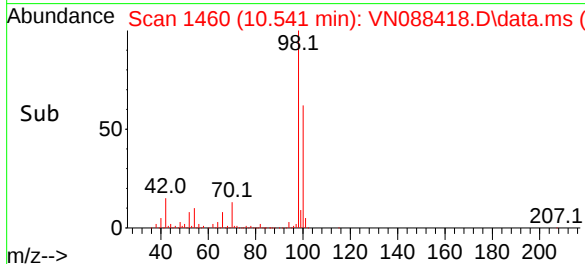
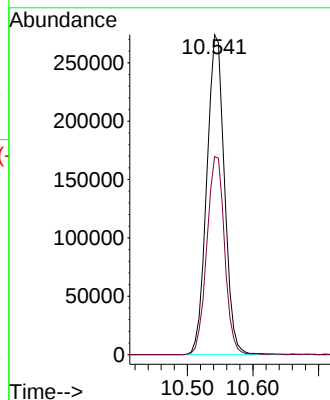
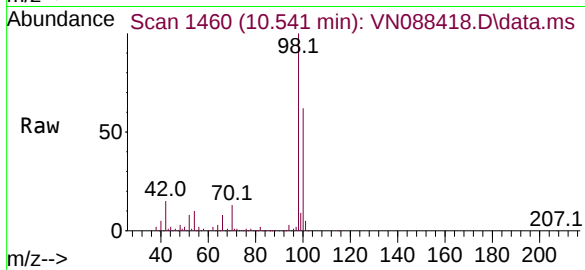




#50
Toluene-d8
Concen: 47.603 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

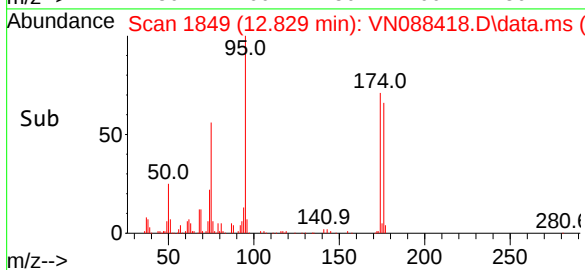
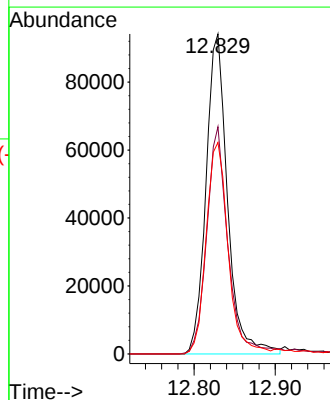
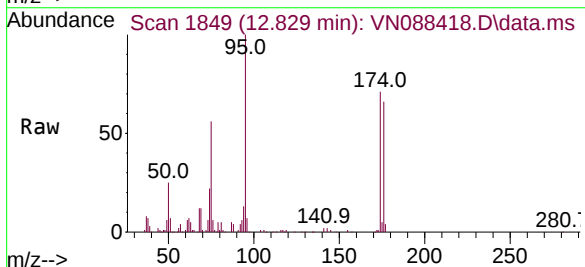
Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

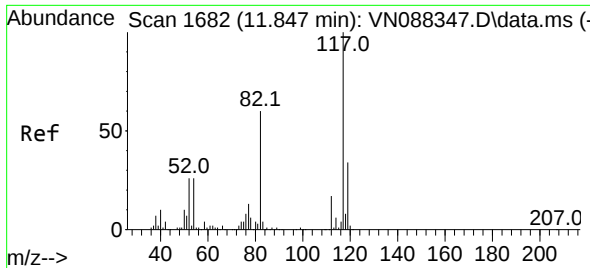
Tgt Ion: 98 Resp: 511270
Ion Ratio Lower Upper
98 100
100 62.3 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 47.075 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion: 95 Resp: 173481
Ion Ratio Lower Upper
95 100
174 70.2 0.0 139.0
176 67.4 0.0 132.4

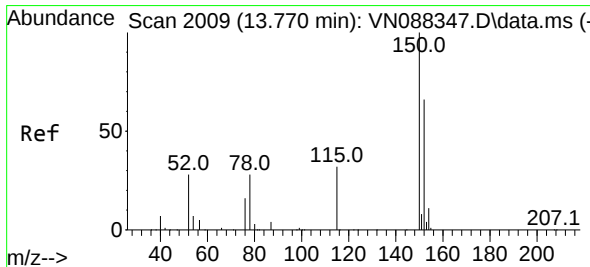
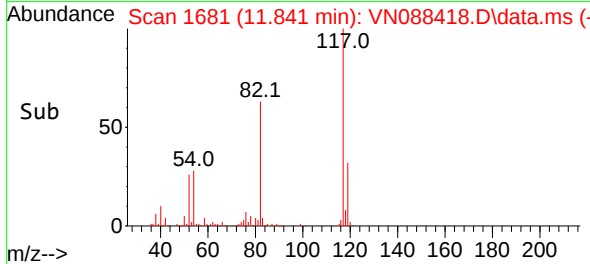
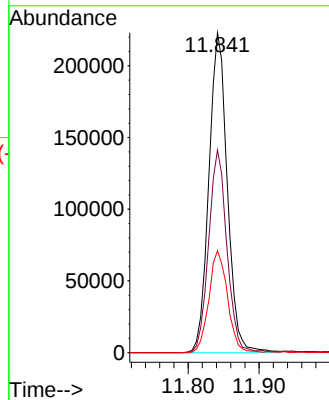
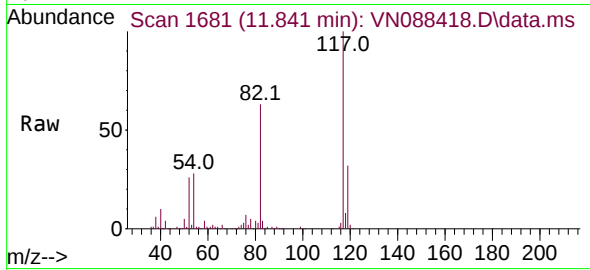




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

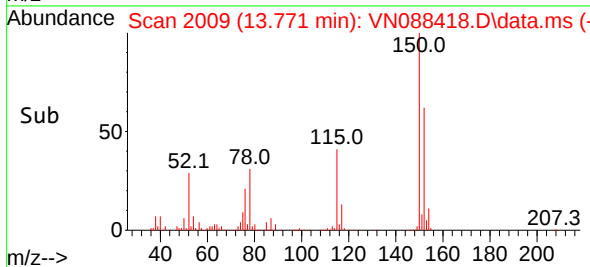
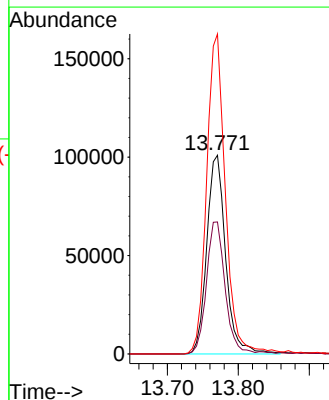
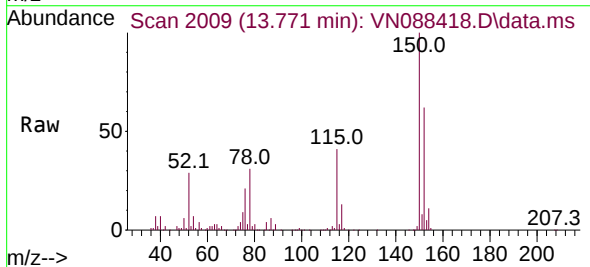
Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Tgt Ion:117 Resp: 402638
Ion Ratio Lower Upper
117 100
82 63.3 47.8 71.8
119 31.8 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion:152 Resp: 186090
Ion Ratio Lower Upper
152 100
115 65.3 33.0 98.9
150 159.4 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088439.D
Acq On : 04 Dec 2025 12:38
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

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Quant Time: Dec 05 00:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	236600	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	556948	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	555675	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	258091	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	275126	61.728	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	123.460%
35) Dibromofluoromethane	8.147	113	196090	50.805	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.620%
50) Toluene-d8	10.541	98	670134	46.664	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.320%
62) 4-Bromofluorobenzene	12.829	95	246023	49.929	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.860%

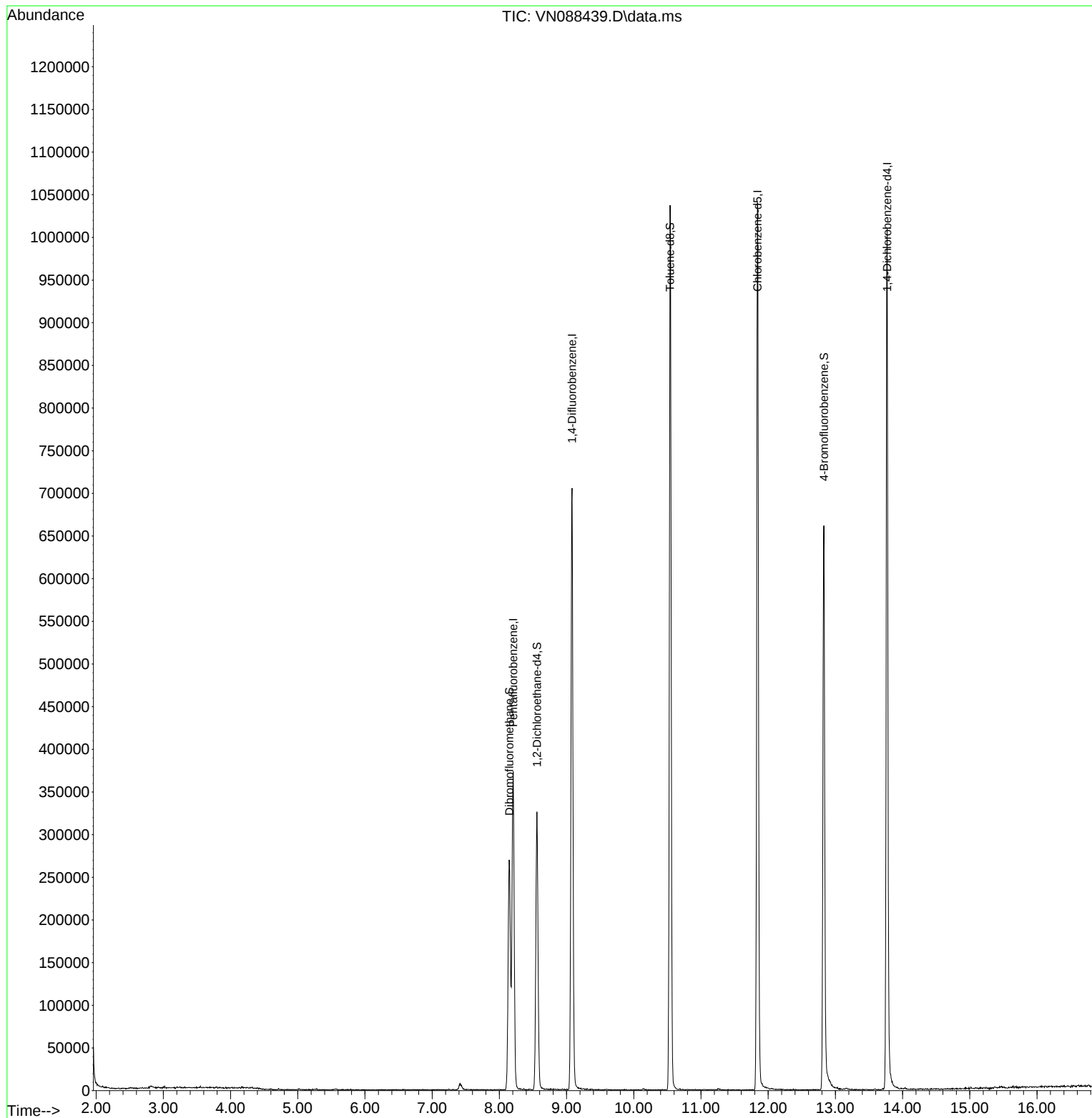
Target Compounds	Qvalue

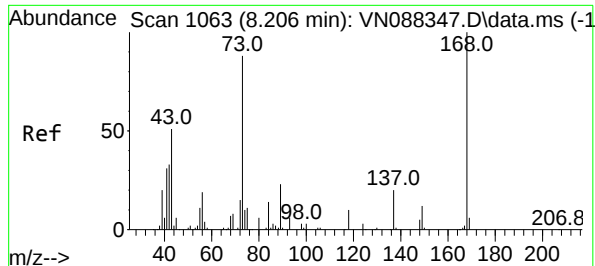
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088439.D
Acq On : 04 Dec 2025 12:38
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Quant Time: Dec 05 00:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

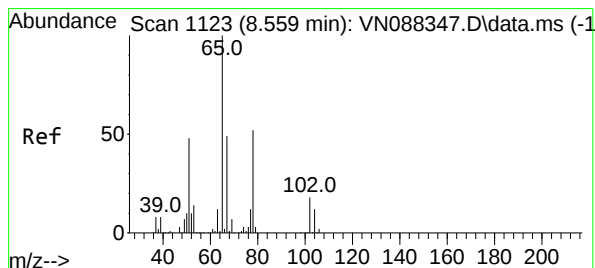
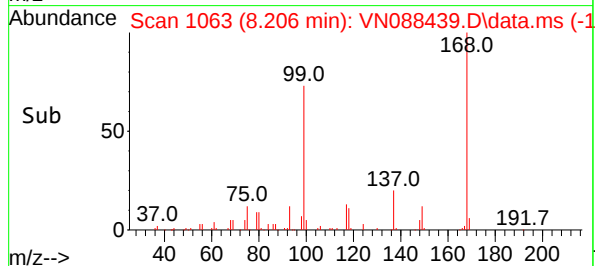
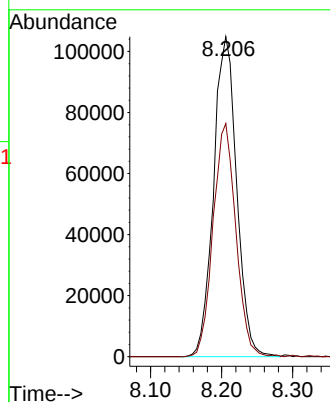
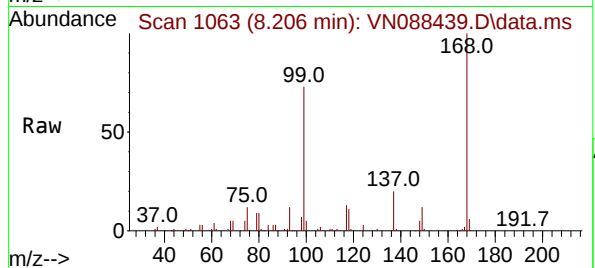




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

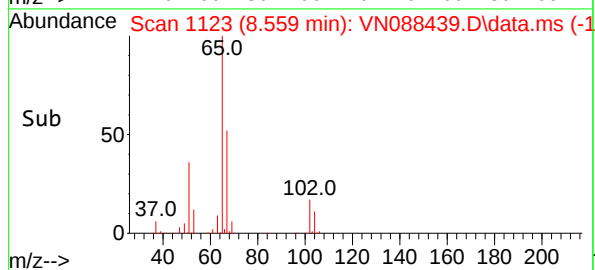
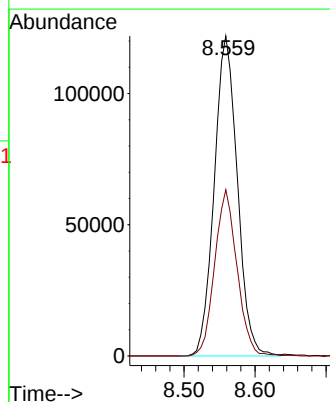
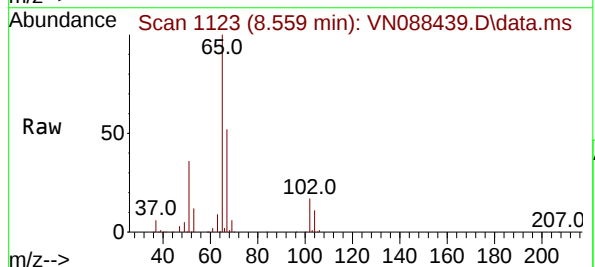
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

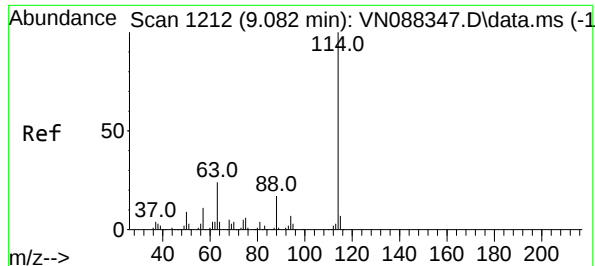
Tgt Ion:168 Resp: 236600
Ion Ratio Lower Upper
168 100
99 72.9 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 61.728 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion: 65 Resp: 275126
Ion Ratio Lower Upper
65 100
67 50.2 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088439.D

Acq: 04 Dec 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBL01

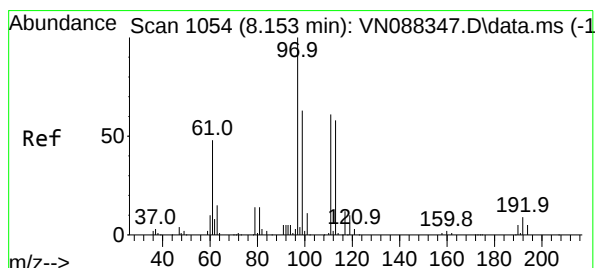
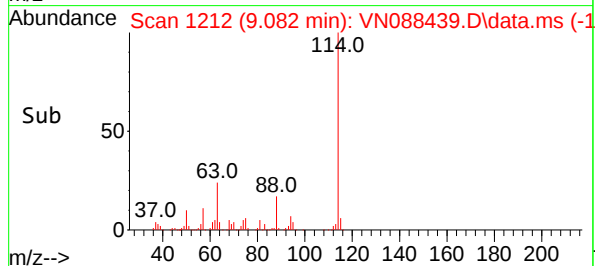
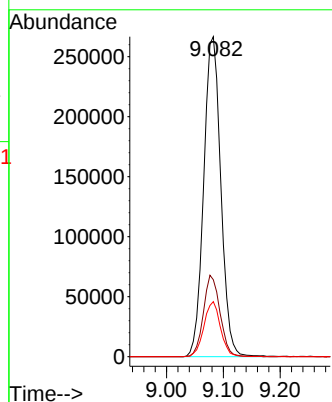
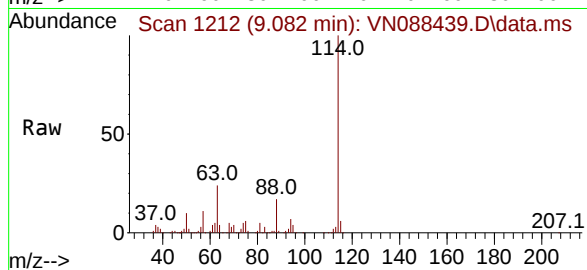
Tgt Ion:114 Resp: 556948

Ion Ratio Lower Upper

114 100

63 24.1 0.0 49.0

88 17.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 50.805 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088439.D

Acq: 04 Dec 2025 12:38

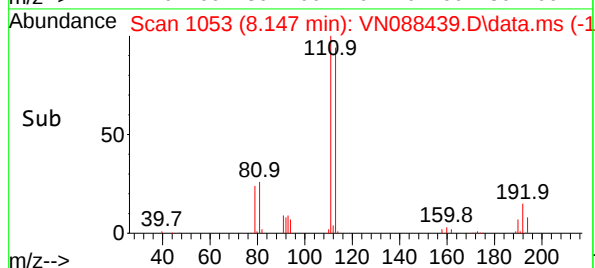
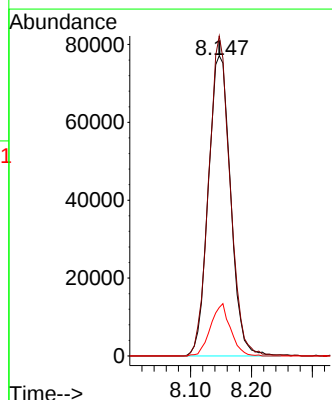
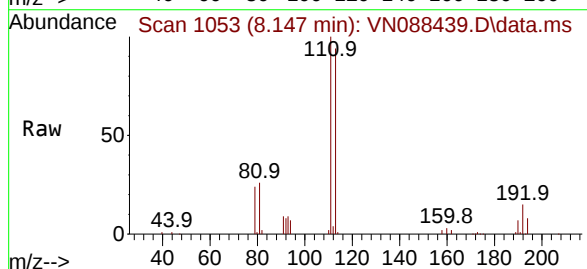
Tgt Ion:113 Resp: 196090

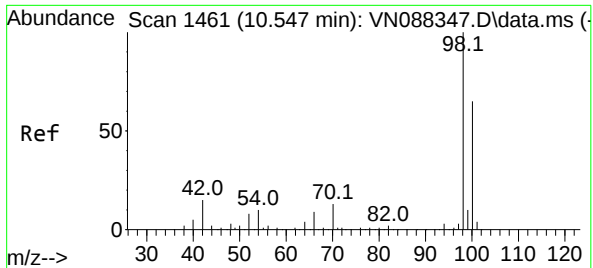
Ion Ratio Lower Upper

113 100

111 102.2 82.5 123.7

192 15.6 12.8 19.2

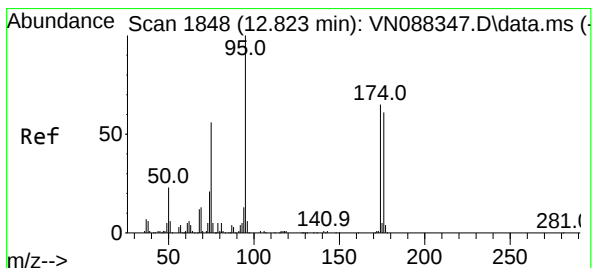
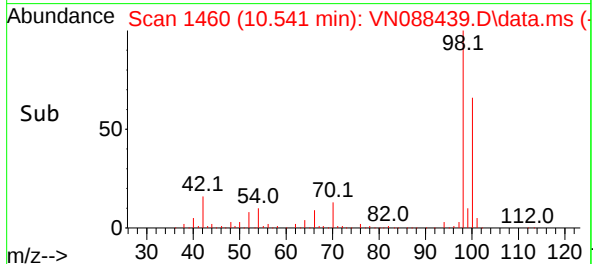
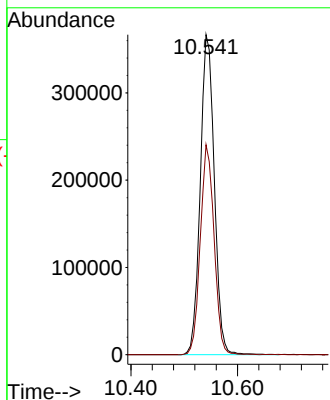
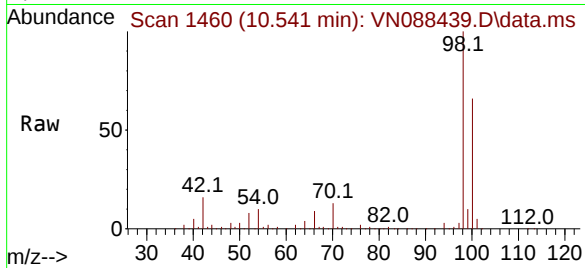




#50
Toluene-d8
Concen: 46.664 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

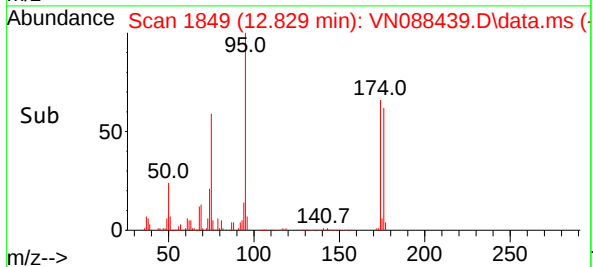
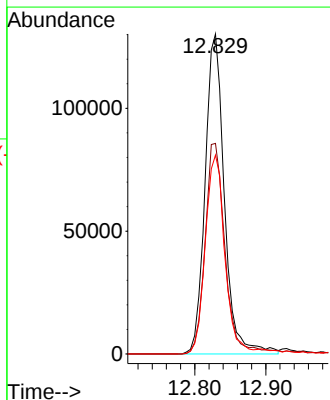
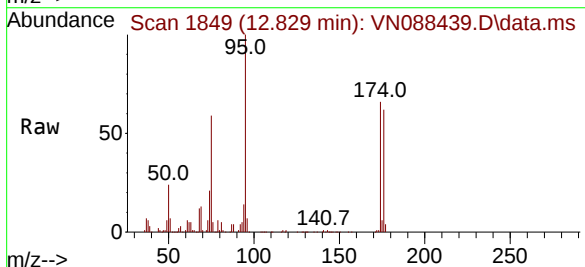
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

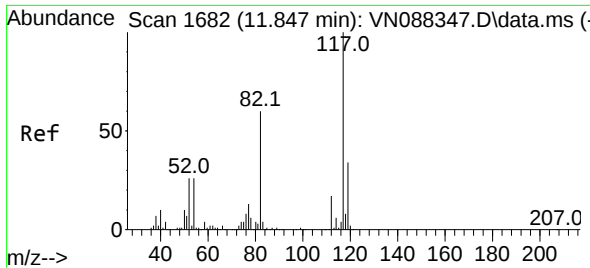
Tgt Ion: 98 Resp: 670134
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 49.929 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion: 95 Resp: 246023
Ion Ratio Lower Upper
95 100
174 68.9 0.0 139.0
176 62.6 0.0 132.4

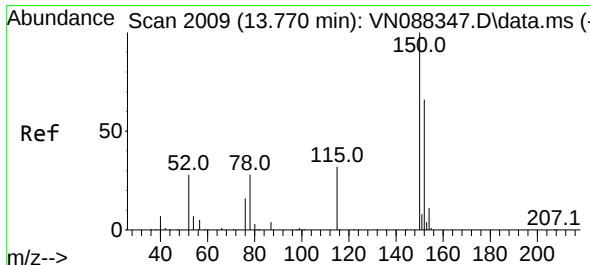
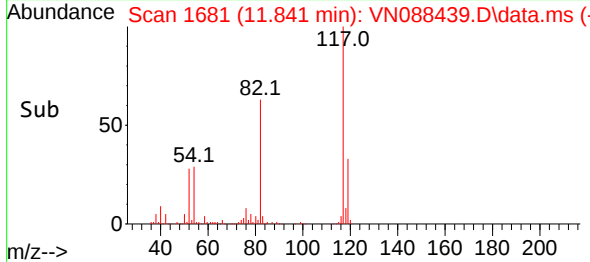
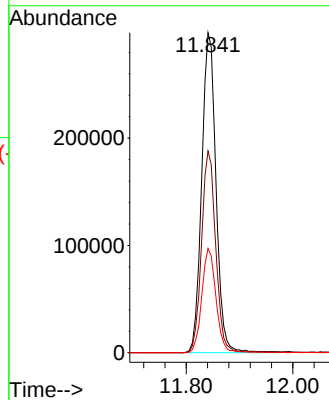
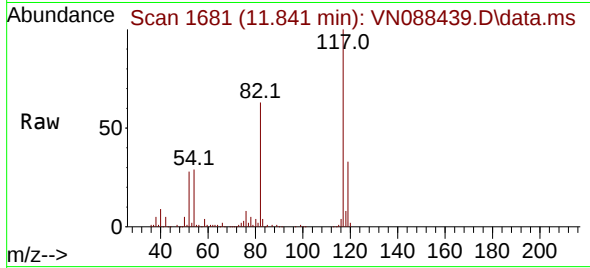




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

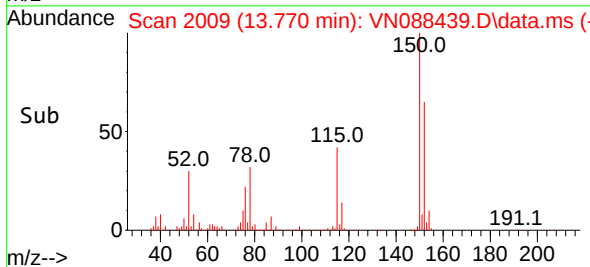
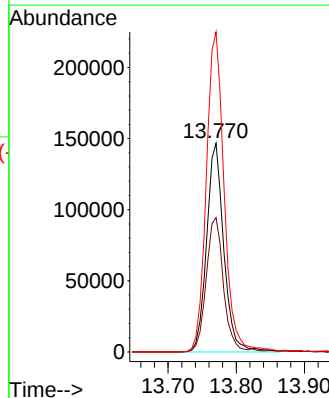
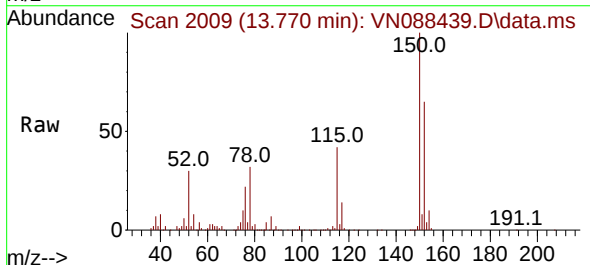
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.0	47.8	71.8
119	32.6	26.9	40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.9	33.0	98.9
150	158.8	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088419.D
 Acq On : 03 Dec 2025 11:38
 Operator : JC\MD
 Sample : VN1203WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 12/04/2025
 Supervised By : Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:15:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	204614	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	382235	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	345174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	173546	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	209173	54.267	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.540%	
35) Dibromofluoromethane	8.147	113	135788	51.263	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.520%	
50) Toluene-d8	10.547	98	488254	49.539	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.080%	
62) 4-Bromofluorobenzene	12.829	95	166873	49.346	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.700%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	60629	19.728	ug/l	99
3) Chloromethane	2.383	50	65720	19.910	ug/l	100
4) Vinyl Chloride	2.536	62	65541	19.518	ug/l	89
5) Bromomethane	2.983	94	34053	21.070	ug/l	94
6) Chloroethane	3.142	64	43089	20.735	ug/l	98
7) Trichlorofluoromethane	3.518	101	94329	19.987	ug/l	98
8) Diethyl Ether	3.965	74	36580	20.650	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	49588	19.736	ug/l	98
10) Methyl Iodide	4.583	142	41239	16.580	ug/l	92
11) Tert butyl alcohol	5.512	59	54309	88.250	ug/l	100
12) 1,1-Dichloroethene	4.347	96	47292	18.945	ug/l	95
13) Acrolein	4.171	56	59542	101.061	ug/l	97
14) Allyl chloride	5.018	41	89883	19.426	ug/l	99
15) Acrylonitrile	5.706	53	178927	100.773	ug/l	98
16) Acetone	4.424	43	128167	91.942	ug/l	97
17) Carbon Disulfide	4.712	76	158397	19.418	ug/l	98
18) Methyl Acetate	5.024	43	84767	20.428	ug/l	99
19) Methyl tert-butyl Ether	5.782	73	194085	20.752	ug/l	99
20) Methylene Chloride	5.271	84	63283	21.218	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	55829	20.189	ug/l	94
22) Diisopropyl ether	6.653	45	214599	21.725	ug/l	97
23) Vinyl Acetate	6.588	43	930390	116.902	ug/l	99
24) 1,1-Dichloroethane	6.547	63	120920	21.616	ug/l	98
25) 2-Butanone	7.465	43	221378	98.785	ug/l	96
26) 2,2-Dichloropropane	7.471	77	99733	20.655	ug/l	99
27) cis-1,2-Dichloroethene	7.465	96	66616	20.728	ug/l	97
28) Bromochloromethane	7.800	49	55880	20.052	ug/l	97
29) Tetrahydrofuran	7.824	42	159218	99.052	ug/l	99
30) Chloroform	7.947	83	120855	21.987	ug/l	97
31) Cyclohexane	8.235	56	96506	19.037	ug/l	96
32) 1,1,1-Trichloroethane	8.147	97	99906	20.671	ug/l	91
36) 1,1-Dichloropropene	8.347	75	76957	18.825	ug/l	99
37) Ethyl Acetate	7.547	43	107252	19.953	ug/l	100
38) Carbon Tetrachloride	8.335	117	84507	20.765	ug/l	93
39) Methylcyclohexane	9.582	83	75011	17.154	ug/l	90
40) Benzene	8.582	78	243262	20.274	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088419.D
 Acq On : 03 Dec 2025 11:38
 Operator : JC\MD
 Sample : VN1203WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
 Supervised By :Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:15:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	53665	20.157	ug/l	99
42) 1,2-Dichloroethane	8.653	62	102116	22.307	ug/l	100
43) Isopropyl Acetate	8.671	43	159565	19.429	ug/l	100
44) Trichloroethene	9.329	130	54294	19.151	ug/l	96
45) 1,2-Dichloropropane	9.600	63	64434	20.960	ug/l	93
46) Dibromomethane	9.688	93	46137	21.030	ug/l	99
47) Bromodichloromethane	9.865	83	97667	21.818	ug/l	89
48) Methyl methacrylate	9.659	41	76248	20.348	ug/l	98
49) 1,4-Dioxane	9.682	88	15069	316.210	ug/l #	100
51) 4-Methyl-2-Pentanone	10.423	43	513300	106.034	ug/l	99
52) Toluene	10.606	92	144540	20.863	ug/l	100
53) t-1,3-Dichloropropene	10.812	75	93059	20.253	ug/l	99
54) cis-1,3-Dichloropropene	10.288	75	101913	21.091	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	56551	21.097	ug/l	95
56) Ethyl methacrylate	10.853	69	86232	20.366	ug/l	99
57) 1,3-Dichloropropane	11.141	76	102375	21.171	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.135	63	244731	100.257	ug/l	100
59) 2-Hexanone	11.176	43	299829	98.319	ug/l	100
60) Dibromochloromethane	11.335	129	65438	21.415	ug/l	97
61) 1,2-Dibromoethane	11.447	107	58683	21.619	ug/l	99
64) Tetrachloroethene	11.082	164	45186	16.513	ug/l	95
65) Chlorobenzene	11.864	112	155133	20.009	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.935	131	54875	20.985	ug/l	98
67) Ethyl Benzene	11.941	91	257971	19.037	ug/l	99
68) m/p-Xylenes	12.047	106	189907	37.798	ug/l	97
69) o-Xylene	12.376	106	90507	18.895	ug/l	97
70) Styrene	12.388	104	155850	20.038	ug/l	99
71) Bromoform	12.559	173	39365	20.553	ug/l #	99
73) Isopropylbenzene	12.676	105	232755	18.139	ug/l	99
74) N-amyl acetate	12.688	43	97909m	22.405	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.911	83	81442	19.633	ug/l	100
76) 1,2,3-Trichloropropane	12.970	75	72180m	17.758	ug/l	
77) Bromobenzene	12.959	156	57417	19.557	ug/l	98
78) n-propylbenzene	13.011	91	289837	18.463	ug/l	100
79) 2-Chlorotoluene	13.100	91	179184	18.692	ug/l	99
80) 1,3,5-Trimethylbenzene	13.147	105	205222	19.301	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.717	75	25746	17.969	ug/l #	73
82) 4-Chlorotoluene	13.200	91	187794	19.723	ug/l	98
83) tert-Butylbenzene	13.411	119	160403	17.746	ug/l	98
84) 1,2,4-Trimethylbenzene	13.458	105	200317	18.954	ug/l	99
85) sec-Butylbenzene	13.594	105	232322	17.891	ug/l	99
86) p-Isopropyltoluene	13.706	119	189351	17.783	ug/l	98
87) 1,3-Dichlorobenzene	13.711	146	109325	19.129	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	117948	19.702	ug/l	99
89) n-Butylbenzene	14.029	91	180513	17.460	ug/l	98
90) Hexachloroethane	14.311	117	36435	18.731	ug/l	97
91) 1,2-Dichlorobenzene	14.082	146	104500	19.430	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.694	75	18143	18.026	ug/l	96
93) 1,2,4-Trichlorobenzene	15.364	180	56227	17.595	ug/l	98
94) Hexachlorobutadiene	15.470	225	19920	17.347	ug/l	97
95) Naphthalene	15.617	128	185176	16.723	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	54328	17.469	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088419.D
Acq On : 03 Dec 2025 11:38
Operator : JC\MD
Sample : VN1203WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:15:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088419.D
 Acq On : 03 Dec 2025 11:38
 Operator : JC\MD
 Sample : VN1203WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VN1203WBS01

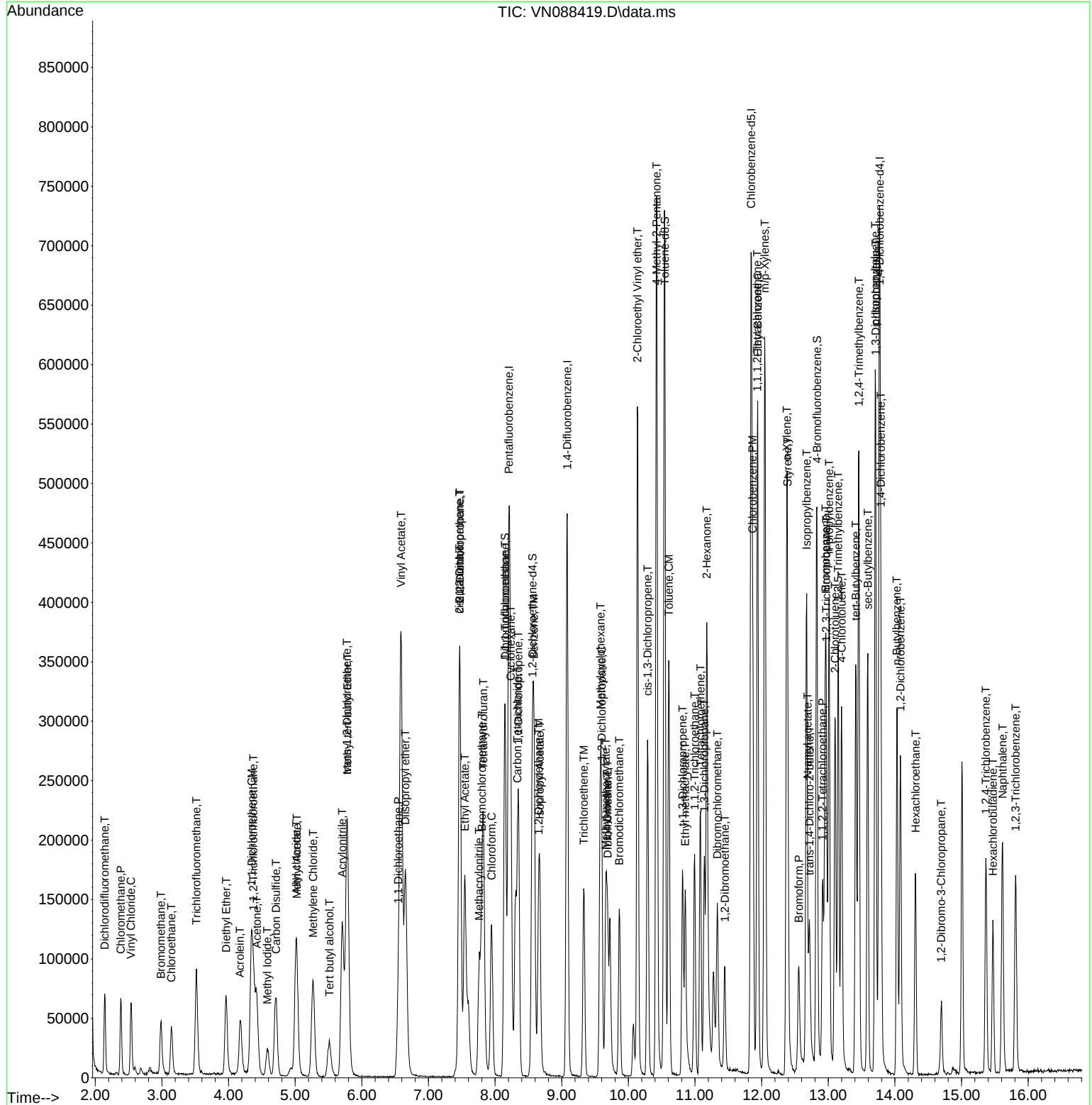
Manual Integrations

APPROVED

Reviewed By : John Carlone 12/04/2025

Supervised By : Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:15:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088443.D
 Acq On : 04 Dec 2025 14:12
 Operator : JC\MD
 Sample : VN1204WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1204WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 00:14:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	303745	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	559564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	491842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	237731	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	307567	53.752	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.500%	
35) Dibromofluoromethane	8.147	113	196606	50.701	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.400%	
50) Toluene-d8	10.547	98	745425	51.664	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.320%	
62) 4-Bromofluorobenzene	12.823	95	269159	54.369	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 108.740%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	97797	21.436	ug/l	93
3) Chloromethane	2.383	50	93145	19.009	ug/l	96
4) Vinyl Chloride	2.536	62	100990	20.259	ug/l	100
5) Bromomethane	2.983	94	46454	19.362	ug/l	91
6) Chloroethane	3.142	64	62589	20.289	ug/l	98
7) Trichlorofluoromethane	3.512	101	150074	21.421	ug/l	95
8) Diethyl Ether	3.959	74	53546	20.363	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	78946	21.166	ug/l	99
10) Methyl Iodide	4.583	142	63657	17.241	ug/l	93
11) Tert butyl alcohol	5.506	59	76083	83.283	ug/l	97
12) 1,1-Dichloroethene	4.342	96	75627	20.408	ug/l	96
13) Acrolein	4.183	56	95364	109.036	ug/l	98
14) Allyl chloride	5.012	41	131363	19.125	ug/l	97
15) Acrylonitrile	5.706	53	244233	92.662	ug/l	99
16) Acetone	4.424	43	183497	88.674	ug/l	96
17) Carbon Disulfide	4.712	76	223379	18.447	ug/l	96
18) Methyl Acetate	5.018	43	120530	19.567	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	272930	19.658	ug/l	99
20) Methylene Chloride	5.265	84	81214	18.343	ug/l	99
21) trans-1,2-Dichloroethene	5.777	96	79259	19.308	ug/l	98
22) Diisopropyl ether	6.659	45	293315	20.002	ug/l	98
23) Vinyl Acetate	6.588	43	1278749	108.235	ug/l	99
24) 1,1-Dichloroethane	6.553	63	162999	19.628	ug/l	97
25) 2-Butanone	7.465	43	310201	93.245	ug/l	100
26) 2,2-Dichloropropane	7.471	77	150702	21.025	ug/l	97
27) cis-1,2-Dichloroethene	7.471	96	90646	19.000	ug/l	96
28) Bromochloromethane	7.794	49	70911	17.142	ug/l	98
29) Tetrahydrofuran	7.818	42	228135	95.607	ug/l	98
30) Chloroform	7.953	83	165040	20.226	ug/l	100
31) Cyclohexane	8.241	56	151560	20.140	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	148393	20.683	ug/l	97
36) 1,1-Dichloropropene	8.353	75	116928	19.538	ug/l	98
37) Ethyl Acetate	7.547	43	137369	17.457	ug/l	97
38) Carbon Tetrachloride	8.341	117	123356	20.706	ug/l	98
39) Methylcyclohexane	9.582	83	125506	19.606	ug/l	90
40) Benzene	8.582	78	339466	19.326	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088443.D
 Acq On : 04 Dec 2025 14:12
 Operator : JC\MD
 Sample : VN1204WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2025
 Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 00:14:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	74031	18.995	ug/l	99
42) 1,2-Dichloroethane	8.647	62	139506	20.817	ug/l	97
43) Isopropyl Acetate	8.671	43	224127	18.642	ug/l	99
44) Trichloroethene	9.329	130	76077	18.330	ug/l	97
45) 1,2-Dichloropropane	9.600	63	87062	19.346	ug/l	99
46) Dibromomethane	9.688	93	62387	19.425	ug/l	99
47) Bromodichloromethane	9.865	83	130611	19.931	ug/l	99
48) Methyl methacrylate	9.659	41	104044	18.966	ug/l	99
49) 1,4-Dioxane	9.677	88	21834	312.972	ug/l #	94
51) 4-Methyl-2-Pentanone	10.424	43	704216	99.372	ug/l	100
52) Toluene	10.606	92	205014	20.214	ug/l	99
53) t-1,3-Dichloropropene	10.812	75	131896	19.609	ug/l	100
54) cis-1,3-Dichloropropene	10.288	75	137564	19.447	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	77993	19.876	ug/l	96
56) Ethyl methacrylate	10.853	69	122489	19.761	ug/l	99
57) 1,3-Dichloropropane	11.141	76	141160	19.940	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.135	63	316457	88.556	ug/l	98
59) 2-Hexanone	11.176	43	422202	94.573	ug/l	99
60) Dibromochloromethane	11.335	129	89380	19.980	ug/l	100
61) 1,2-Dibromoethane	11.447	107	78746	19.817	ug/l	98
64) Tetrachloroethene	11.082	164	70474	18.074	ug/l	94
65) Chlorobenzene	11.870	112	218454	19.774	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.941	131	72384	19.426	ug/l	96
67) Ethyl Benzene	11.941	91	390956	20.247	ug/l	98
68) m/p-Xylenes	12.047	106	286124	39.966	ug/l	96
69) o-Xylene	12.370	106	139831	20.487	ug/l	99
70) Styrene	12.388	104	232254	20.957	ug/l	99
71) Bromoform	12.553	173	55870	20.471	ug/l #	99
73) Isopropylbenzene	12.670	105	360370	20.502	ug/l	99
74) N-amyl acetate	12.688	43	116340m	19.435	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.912	83	112119	19.731	ug/l	99
76) 1,2,3-Trichloropropane	12.970	75	113577m	20.398	ug/l	
77) Bromobenzene	12.953	156	82378	20.483	ug/l	99
78) n-propylbenzene	13.012	91	452912	21.062	ug/l	99
79) 2-Chlorotoluene	13.100	91	273041	20.792	ug/l	98
80) 1,3,5-Trimethylbenzene	13.147	105	301838	20.723	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.723	75	35744	18.212	ug/l #	91
82) 4-Chlorotoluene	13.194	91	286032	21.930	ug/l	97
83) tert-Butylbenzene	13.412	119	261764	21.141	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	312793	21.606	ug/l	97
85) sec-Butylbenzene	13.594	105	375613	21.117	ug/l	99
86) p-Isopropyltoluene	13.706	119	306028	20.981	ug/l	97
87) 1,3-Dichlorobenzene	13.712	146	154606	19.748	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	162379	19.800	ug/l	99
89) n-Butylbenzene	14.029	91	297476	21.005	ug/l	98
90) Hexachloroethane	14.306	117	52252	19.610	ug/l	98
91) 1,2-Dichlorobenzene	14.082	146	147868	20.071	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	28137	20.408	ug/l	99
93) 1,2,4-Trichlorobenzene	15.364	180	83932	19.174	ug/l	95
94) Hexachlorobutadiene	15.470	225	28512	18.126	ug/l	97
95) Naphthalene	15.611	128	307489	20.271	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	83257	19.543	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

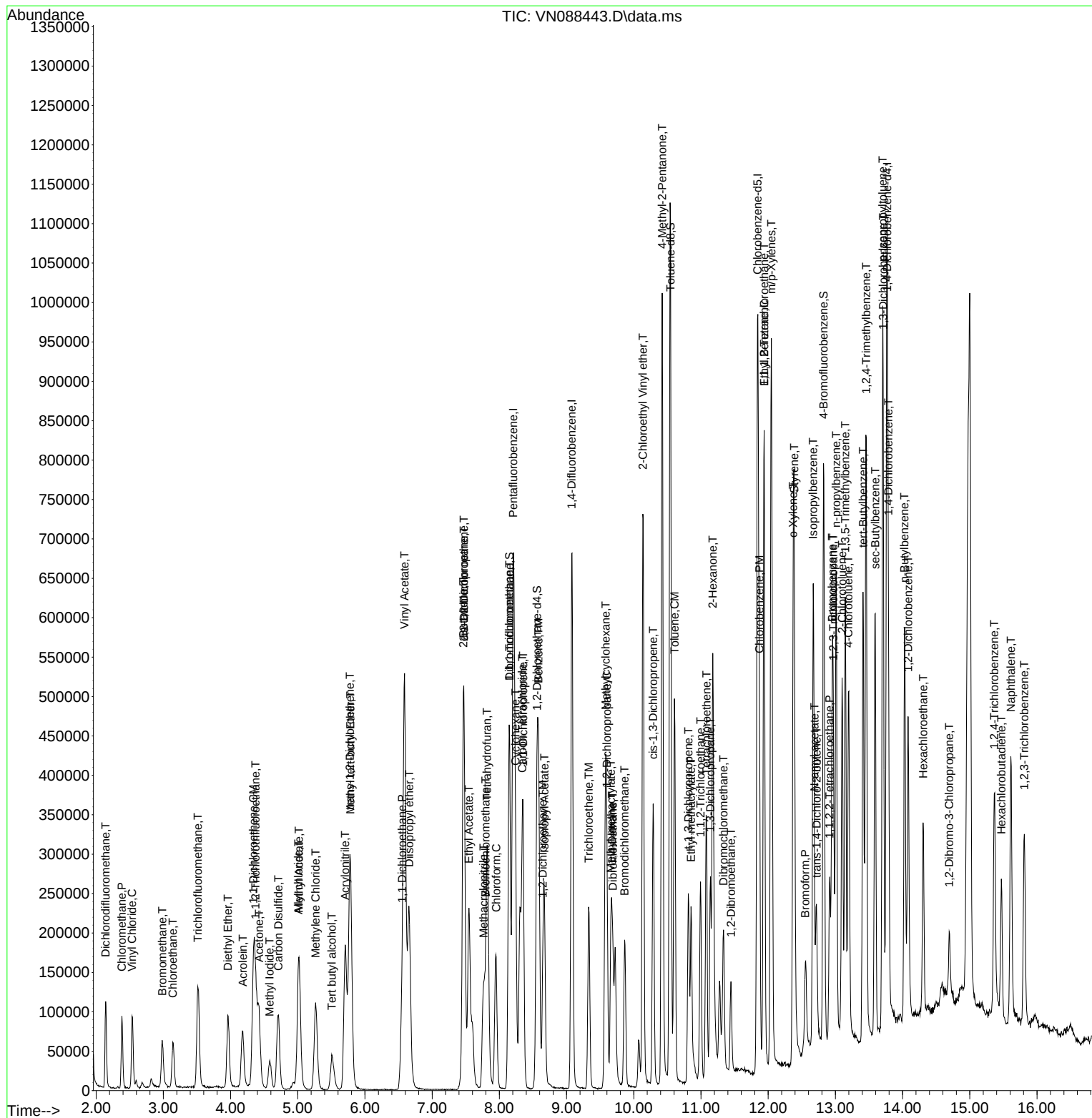
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088432.D
 Acq On : 03 Dec 2025 16:17
 Operator : JC\MD
 Sample : VN1203WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 12/04/2025
 Supervised By : Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:22:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	250101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	473571	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	423667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	214103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	258504	54.868	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.740%			
35) Dibromofluoromethane	8.147	113	170328	51.900	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.800%			
50) Toluene-d8	10.547	98	634377	51.952	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.900%			
62) 4-Bromofluorobenzene	12.829	95	218669	52.191	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.380%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	81999	21.828	ug/l	98
3) Chloromethane	2.383	50	81497	20.200	ug/l	98
4) Vinyl Chloride	2.536	62	84304	20.539	ug/l	95
5) Bromomethane	2.983	94	39841	20.168	ug/l	100
6) Chloroethane	3.142	64	52131	20.524	ug/l	88
7) Trichlorofluoromethane	3.518	101	126368	21.906	ug/l	99
8) Diethyl Ether	3.959	74	46608	21.526	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	66725	21.727	ug/l	100
10) Methyl Iodide	4.583	142	51913	17.076	ug/l	98
11) Tert butyl alcohol	5.518	59	69415	92.282	ug/l	97
12) 1,1-Dichloroethene	4.342	96	64784	21.232	ug/l	93
13) Acrolein	4.183	56	88085	122.316	ug/l	99
14) Allyl chloride	5.012	41	115902	20.494	ug/l	97
15) Acrylonitrile	5.712	53	227954	105.036	ug/l	97
16) Acetone	4.418	43	244436	143.458	ug/l	96
17) Carbon Disulfide	4.706	76	200528	20.111	ug/l #	95
18) Methyl Acetate	5.024	43	118332	23.331	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	236697	20.705	ug/l	98
20) Methylene Chloride	5.265	84	76028	20.855	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	68780	20.349	ug/l	95
22) Diisopropyl ether	6.653	45	266704	22.089	ug/l #	94
23) Vinyl Acetate	6.588	43	1164465	119.703	ug/l	97
24) 1,1-Dichloroethane	6.559	63	147767	21.611	ug/l	99
25) 2-Butanone	7.471	43	326935	119.354	ug/l	96
26) 2,2-Dichloropropane	7.471	77	122234	20.711	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	81731	20.806	ug/l	98
28) Bromochloromethane	7.794	49	78944	23.177	ug/l	97
29) Tetrahydrofuran	7.824	42	210835	107.309	ug/l	98
30) Chloroform	7.947	83	149314	22.224	ug/l	91
31) Cyclohexane	8.241	56	125860	20.312	ug/l	94
32) 1,1,1-Trichloroethane	8.147	97	129487	21.919	ug/l	96
36) 1,1-Dichloropropene	8.353	75	99068	19.560	ug/l	99
37) Ethyl Acetate	7.541	43	138649	20.819	ug/l	99
38) Carbon Tetrachloride	8.341	117	105371	20.898	ug/l	96
39) Methylcyclohexane	9.582	83	101432	18.723	ug/l	94
40) Benzene	8.588	78	299926	20.176	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088432.D
 Acq On : 03 Dec 2025 16:17
 Operator : JC\MD
 Sample : VN1203WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBSD01

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/04/2025

Supervised By :Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:22:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M

Quant Title : SW846 8260

QLast Update : Tue Nov 25 01:34:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	67759	20.542	ug/l	98
42) 1,2-Dichloroethane	8.647	62	126828	22.362	ug/l	99
43) Isopropyl Acetate	8.671	43	204303	20.078	ug/l	100
44) Trichloroethene	9.335	130	66882	19.041	ug/l	99
45) 1,2-Dichloropropane	9.600	63	80741	21.199	ug/l	95
46) Dibromomethane	9.688	93	58631	21.571	ug/l	98
47) Bromodichloromethane	9.871	83	117197	21.132	ug/l	93
48) Methyl methacrylate	9.665	41	95681	20.609	ug/l	97
49) 1,4-Dioxane	9.677	88	20393	345.396	ug/l #	88
51) 4-Methyl-2-Pentanone	10.424	43	656411	109.445	ug/l	98
52) Toluene	10.606	92	182595	21.272	ug/l	98
53) t-1,3-Dichloropropene	10.818	75	114495	20.113	ug/l	98
54) cis-1,3-Dichloropropene	10.288	75	123356	20.605	ug/l	97
55) 1,1,2-Trichloroethane	10.994	97	71038	21.390	ug/l	98
56) Ethyl methacrylate	10.853	69	110151	20.998	ug/l	96
57) 1,3-Dichloropropane	11.141	76	128913	21.517	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.141	63	286552	94.749	ug/l	100
59) 2-Hexanone	11.176	43	412680	109.226	ug/l	100
60) Dibromochloromethane	11.335	129	81410	21.503	ug/l	100
61) 1,2-Dibromoethane	11.447	107	70205	20.876	ug/l	99
64) Tetrachloroethene	11.076	164	55998	16.673	ug/l	96
65) Chlorobenzene	11.870	112	191798	20.154	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.935	131	67516	21.036	ug/l	99
67) Ethyl Benzene	11.941	91	333864	20.073	ug/l	99
68) m/p-Xylenes	12.047	106	246899	40.037	ug/l	94
69) o-Xylene	12.376	106	118643	20.180	ug/l	98
70) Styrene	12.388	104	194030	20.325	ug/l	98
71) Bromoform	12.559	173	49639	21.115	ug/l #	100
73) Isopropylbenzene	12.670	105	303830	19.193	ug/l	98
74) N-amyl acetate	12.670	43	93651m	17.371	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	101816	19.895	ug/l	93
76) 1,2,3-Trichloropropane	12.970	75	86438m	17.237	ug/l	
77) Bromobenzene	12.953	156	73974	20.423	ug/l	98
78) n-propylbenzene	13.012	91	384189	19.838	ug/l	98
79) 2-Chlorotoluene	13.100	91	227899	19.270	ug/l	99
80) 1,3,5-Trimethylbenzene	13.147	105	258850	19.733	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	30488	17.248	ug/l #	96
82) 4-Chlorotoluene	13.200	91	237099	20.185	ug/l	99
83) tert-Butylbenzene	13.417	119	214026	19.193	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	260658	19.991	ug/l	98
85) sec-Butylbenzene	13.594	105	310564	19.386	ug/l	100
86) p-Isopropyltoluene	13.706	119	257654	19.614	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	140444	19.919	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	145470	19.696	ug/l	98
89) n-Butylbenzene	14.035	91	242333	19.000	ug/l	98
90) Hexachloroethane	14.306	117	48032	20.016	ug/l	99
91) 1,2-Dichlorobenzene	14.082	146	131671	19.844	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	22261	17.928	ug/l	98
93) 1,2,4-Trichlorobenzene	15.370	180	69170	17.545	ug/l	95
94) Hexachlorobutadiene	15.470	225	26725	18.864	ug/l	98
95) Naphthalene	15.611	128	243313	17.810	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	71458	18.625	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088432.D
Acq On : 03 Dec 2025 16:17
Operator : JC\MD
Sample : VN1203WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:22:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

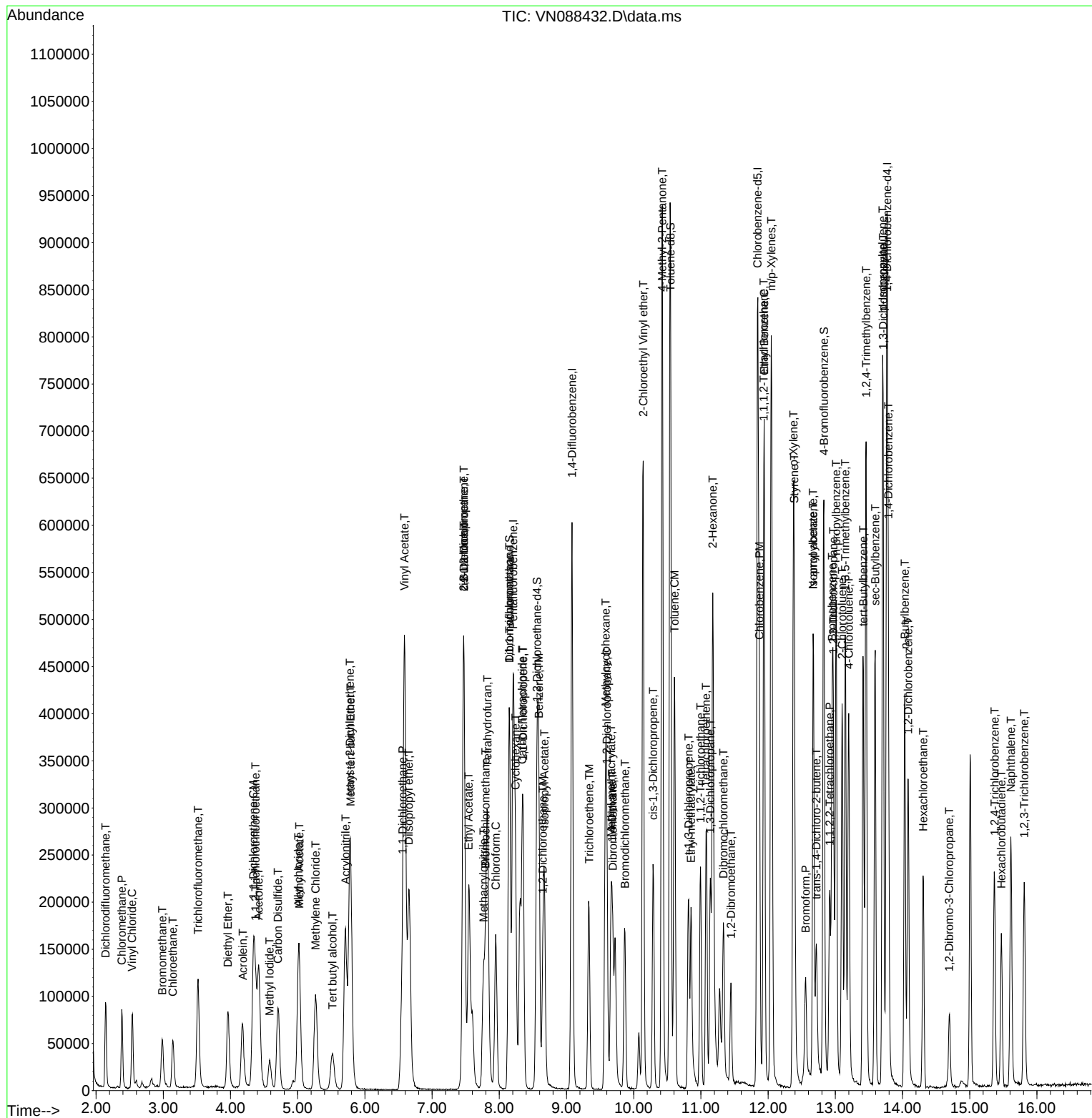
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Data File : VN088432.D
Acq On : 03 Dec 2025 16:17
Operator : JC\MD
Sample : VN1203WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:22:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VN112425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN088344.D	1,1-Dichloroethene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	1,4-Dichlorobenzene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	2-Hexanone	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	cis-1,2-Dichloroethene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	Diisopropyl ether	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC005	VN088345.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:00 AM	MMDadoda	11/26/2025 1:51:51 PM	Peak Integrated by Software
VSTDICC005	VN088345.D	Vinyl Acetate	JOHN	11/25/2025 9:36:00 AM	MMDadoda	11/26/2025 1:51:51 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	N-amyl acetate	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	Vinyl Acetate	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICCC050	VN088347.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:10 AM	MMDadoda	11/26/2025 1:51:58 PM	Peak Integrated by Software
VSTDICCC050	VN088347.D	Vinyl Acetate	JOHN	11/25/2025 9:36:10 AM	MMDadoda	11/26/2025 1:51:58 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN112425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN088348.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC100	VN088348.D	Allyl chloride	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC100	VN088348.D	Vinyl Acetate	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	Allyl chloride	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	Vinyl Acetate	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	N-amyl acetate	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	Vinyl Acetate	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN120325	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088416.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:00 AM	sam	12/4/2025 2:41:16 PM	Peak Integrated by Software
VSTDCCC050	VN088416.D	N-amyl acetate	JOHN	12/4/2025 8:05:00 AM	sam	12/4/2025 2:41:16 PM	Peak Integrated by Software
VN1203WBS01	VN088419.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:05 AM	sam	12/4/2025 2:41:21 PM	Peak Integrated by Software
VN1203WBS01	VN088419.D	N-amyl acetate	JOHN	12/4/2025 8:05:05 AM	sam	12/4/2025 2:41:21 PM	Peak Integrated by Software
VN1203WBSD0 1	VN088432.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:15 AM	sam	12/4/2025 2:41:32 PM	Peak Integrated by Software
VN1203WBSD0 1	VN088432.D	N-amyl acetate	JOHN	12/4/2025 8:05:15 AM	sam	12/4/2025 2:41:32 PM	Peak Integrated by Software
VSTDCCC050	VN088435.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:20 AM	sam	12/4/2025 2:41:38 PM	Peak Integrated by Software
VSTDCCC050	VN088435.D	N-amyl acetate	JOHN	12/4/2025 8:05:20 AM	sam	12/4/2025 2:41:38 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN120425

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088437.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:14 AM	sam	12/5/2025 2:18:25 PM	Peak Integrated by Software
VSTDCCC050	VN088437.D	N-amyl acetate	JOHN	12/5/2025 8:18:14 AM	sam	12/5/2025 2:18:25 PM	Peak Integrated by Software
VN1204WBS01	VN088443.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:23 AM	sam	12/5/2025 2:18:38 PM	Peak Integrated by Software
VN1204WBS01	VN088443.D	N-amyl acetate	JOHN	12/5/2025 8:18:23 AM	sam	12/5/2025 2:18:38 PM	Peak Integrated by Software
VSTDCCC050	VN088461.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:43 AM	sam	12/5/2025 2:18:57 PM	Peak Integrated by Software
VSTDCCC050	VN088461.D	N-amyl acetate	JOHN	12/5/2025 8:18:43 AM	sam	12/5/2025 2:18:57 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN112425

Review By	John Carlone	Review On	11/25/2025 9:36:43 AM		
Supervise By	Maresh Dadoda	Supervise On	11/26/2025 1:52:19 PM		
SubDirectory	VN112425	HP Acquire Method	MSVOA_N	HP Processing Method	82N112425W.M
STD. NAME		STD REF.#			
Tune/Reschk		VP136378			
Initial Calibration Stds		VP136444,VP136445,VP136446,VP136447,VP136448,VP136449			
CCC					
Internal Standard/PEM					
ICV/I.BLK		VP136450			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088343.D	24 Nov 2025 08:17	JC\MD	Ok
2	VSTDIC001	VN088344.D	24 Nov 2025 12:38	JC\MD	Ok,M
3	VSTDIC005	VN088345.D	24 Nov 2025 13:11	JC\MD	Ok,M
4	VSTDIC020	VN088346.D	24 Nov 2025 13:32	JC\MD	Ok,M
5	VSTDIC050	VN088347.D	24 Nov 2025 13:53	JC\MD	Ok,M
6	VSTDIC100	VN088348.D	24 Nov 2025 14:14	JC\MD	Ok,M
7	VSTDIC150	VN088349.D	24 Nov 2025 14:35	JC\MD	Ok,M
8	IBLK	VN088350.D	24 Nov 2025 14:56	JC\MD	Ok
9	VSTDICV050	VN088351.D	24 Nov 2025 15:18	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM
SubDirectory	VN120325	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136478		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136479,VP136480		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088415.D	03 Dec 2025 09:36	JC\MD	Ok
2	VSTDCCC050	VN088416.D	03 Dec 2025 10:09	JC\MD	Ok,M
3	VN1203MBL01	VN088417.D	03 Dec 2025 10:43	JC\MD	Ok
4	VN1203WBL01	VN088418.D	03 Dec 2025 11:03	JC\MD	Ok
5	VN1203WBS01	VN088419.D	03 Dec 2025 11:38	JC\MD	Ok,M
6	VN1203WBS02	VN088420.D	03 Dec 2025 12:11	JC\MD	Not Ok
7	IBLK	VN088421.D	03 Dec 2025 12:31	JC\MD	Ok
8	Q3756-09	VN088422.D	03 Dec 2025 12:52	JC\MD	Ok
9	Q3756-10	VN088423.D	03 Dec 2025 13:12	JC\MD	ReRun
10	Q3756-01	VN088424.D	03 Dec 2025 13:33	JC\MD	Not Ok
11	Q3756-03	VN088425.D	03 Dec 2025 13:53	JC\MD	Not Ok
12	Q3756-05	VN088426.D	03 Dec 2025 14:13	JC\MD	Not Ok
13	Q3756-07	VN088427.D	03 Dec 2025 14:34	JC\MD	Not Ok
14	PB170786TB	VN088428.D	03 Dec 2025 14:54	JC\MD	Ok
15	Q3750-07	VN088429.D	03 Dec 2025 15:15	JC\MD	ReRun
16	Q3750-08	VN088430.D	03 Dec 2025 15:35	JC\MD	ReRun
17	Q3725-02	VN088431.D	03 Dec 2025 15:56	JC\MD	Not Ok
18	VN1203WBSD01	VN088432.D	03 Dec 2025 16:17	JC\MD	Ok,M
19	IBLK	VN088433.D	03 Dec 2025 16:37	JC\MD	Ok
20	Q3756-10RE	VN088434.D	03 Dec 2025 16:58	JC\MD	Confirms
21	VSTDCCC050	VN088435.D	03 Dec 2025 17:18	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM
SubDirectory	VN120425	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136506,VP136507		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088436.D	04 Dec 2025 11:03	JC\MD	Ok
2	VSTDCCC050	VN088437.D	04 Dec 2025 11:44	JC\MD	Ok,M
3	VN1204MBL01	VN088438.D	04 Dec 2025 12:17	JC\MD	Ok
4	VN1204WBL01	VN088439.D	04 Dec 2025 12:38	JC\MD	Ok
5	VN1204MBS01	VN088440.D	04 Dec 2025 13:11	JC\MD	Ok,M
6	Q3768-01	VN088441.D	04 Dec 2025 13:31	JC\MD	Not Ok
7	IBLK	VN088442.D	04 Dec 2025 13:52	JC\MD	Ok
8	VN1204WBS01	VN088443.D	04 Dec 2025 14:12	JC\MD	Ok,M
9	VN1204WBSD01	VN088444.D	04 Dec 2025 14:45	JC\MD	Ok,M
10	Q3756-03	VN088445.D	04 Dec 2025 15:06	JC\MD	Ok
11	Q3756-01	VN088446.D	04 Dec 2025 15:26	JC\MD	Ok
12	Q3756-05	VN088447.D	04 Dec 2025 15:47	JC\MD	Ok
13	Q3756-07	VN088448.D	04 Dec 2025 16:07	JC\MD	Ok
14	Q3757-12	VN088449.D	04 Dec 2025 16:28	JC\MD	Ok
15	Q3757-11	VN088450.D	04 Dec 2025 16:48	JC\MD	Ok,M
16	Q3757-01	VN088451.D	04 Dec 2025 17:09	JC\MD	Not Ok
17	Q3757-03	VN088452.D	04 Dec 2025 17:29	JC\MD	Not Ok
18	Q3757-05	VN088453.D	04 Dec 2025 17:50	JC\MD	Not Ok
19	Q3757-07	VN088454.D	04 Dec 2025 18:10	JC\MD	Not Ok
20	Q3757-09	VN088455.D	04 Dec 2025 18:31	JC\MD	Not Ok
21	Q3750-07	VN088456.D	04 Dec 2025 18:51	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM
SubDirectory	VN120425	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136506,VP136507		

22	Q3750-08	VN088457.D	04 Dec 2025 19:11	JC\MD	Ok
23	PB170809TB	VN088458.D	04 Dec 2025 19:32	JC\MD	Ok
24	Q3775-01	VN088459.D	04 Dec 2025 19:52	JC\MD	Not Ok
25	IBLK	VN088460.D	04 Dec 2025 20:13	JC\MD	Ok
26	VSTDCCC050	VN088461.D	04 Dec 2025 20:33	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN112425

Review By	John Carlone	Review On	11/25/2025 9:36:43 AM
Supervise By	Maresh Dadoda	Supervise On	11/26/2025 1:52:19 PM
SubDirectory	VN112425	HP Acquire Method	MSVOA_N HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP136378		
Initial Calibration Stds	VP136444,VP136445,VP136446,VP136447,VP136448,VP136449		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP136450		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088343.D	24 Nov 2025 08:17		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN088344.D	24 Nov 2025 12:38		JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN088345.D	24 Nov 2025 13:11	COM.#74 Peak not detected in 1 and 5 PPB	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN088346.D	24 Nov 2025 13:32		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN088347.D	24 Nov 2025 13:53	Method failed for Comp. #74	JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN088348.D	24 Nov 2025 14:14		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN088349.D	24 Nov 2025 14:35		JC\MD	Ok,M
8	IBLK	IBLK	VN088350.D	24 Nov 2025 14:56		JC\MD	Ok
9	VSTDICV050	ICVVN112425	VN088351.D	24 Nov 2025 15:18		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM
SubDirectory	VN120325	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136478		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136479,VP136480		

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088415.D	03 Dec 2025 09:36		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088416.D	03 Dec 2025 10:09	pH#Lot#V12668	JC\MD	Ok,M
3	VN1203MBL01	VN1203MBL01	VN088417.D	03 Dec 2025 10:43		JC\MD	Ok
4	VN1203WBL01	VN1203WBL01	VN088418.D	03 Dec 2025 11:03		JC\MD	Ok
5	VN1203WBS01	VN1203WBS01	VN088419.D	03 Dec 2025 11:38		JC\MD	Ok,M
6	VN1203WBS02	VN1203WBS02	VN088420.D	03 Dec 2025 12:11	Recovery fail	JC\MD	Not Ok
7	IBLK	IBLK	VN088421.D	03 Dec 2025 12:31		JC\MD	Ok
8	Q3756-09	EB01-120225	VN088422.D	03 Dec 2025 12:52	vial A pH<2 EB	JC\MD	Ok
9	Q3756-10	TB01-120225	VN088423.D	03 Dec 2025 13:12	vial A pH<2 TB;Surrogate fail	JC\MD	ReRun
10	Q3756-01	OW-04B-26.5-120225	VN088424.D	03 Dec 2025 13:33	Surrogate fail;Need straight run	JC\MD	Not Ok
11	Q3756-03	BR-01-190-120225	VN088425.D	03 Dec 2025 13:53	Need Straight Run	JC\MD	Not Ok
12	Q3756-05	MW-04-12-120225	VN088426.D	03 Dec 2025 14:13	Need Straight Run	JC\MD	Not Ok
13	Q3756-07	MW-13B-47.5-120225	VN088427.D	03 Dec 2025 14:34	Surrogate fail;Need straight run	JC\MD	Not Ok
14	PB170786TB	PB170786TB	VN088428.D	03 Dec 2025 14:54		JC\MD	Ok
15	Q3750-07	FENCE WC-1	VN088429.D	03 Dec 2025 15:15	vial A pH#5.0 Surrogate fail	JC\MD	ReRun
16	Q3750-08	FENCE WC-2	VN088430.D	03 Dec 2025 15:35	vial A pH#5.0 Surrogate fail	JC\MD	ReRun
17	Q3725-02	STOCKPILE-SAMPLES	VN088431.D	03 Dec 2025 15:56	Not in Login page	JC\MD	Not Ok
18	VN1203WBSD01	VN1203WBSD01	VN088432.D	03 Dec 2025 16:17		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM
SubDirectory	VN120325	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136478		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136479,VP136480		

19	IBLK	IBLK	VN088433.D	03 Dec 2025 16:37		JC\MD	Ok
20	Q3756-10RE	TB01-120225RE	VN088434.D	03 Dec 2025 16:58	vial B pH<2 TB;Surrogate fail	JC\MD	Confirms
21	VSTDCCC050	VSTDCCC050EC	VN088435.D	03 Dec 2025 17:18		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM
SubDirectory	VN120425	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136506,VP136507		

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088436.D	04 Dec 2025 11:03		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088437.D	04 Dec 2025 11:44	pH#Lot#V12668	JC\MD	Ok,M
3	VN1204MBL01	VN1204MBL01	VN088438.D	04 Dec 2025 12:17		JC\MD	Ok
4	VN1204WBL01	VN1204WBL01	VN088439.D	04 Dec 2025 12:38		JC\MD	Ok
5	VN1204MBS01	VN1204MBS01	VN088440.D	04 Dec 2025 13:11		JC\MD	Ok,M
6	Q3768-01	20071	VN088441.D	04 Dec 2025 13:31	Need Soil Run	JC\MD	Not Ok
7	IBLK	IBLK	VN088442.D	04 Dec 2025 13:52		JC\MD	Ok
8	VN1204WBS01	VN1204WBS01	VN088443.D	04 Dec 2025 14:12		JC\MD	Ok,M
9	VN1204WBSD01	VN1204WBSD01	VN088444.D	04 Dec 2025 14:45		JC\MD	Ok,M
10	Q3756-03	BR-01-190-120225	VN088445.D	04 Dec 2025 15:06	vial A pH<2	JC\MD	Ok
11	Q3756-01	OW-04B-26.5-120225	VN088446.D	04 Dec 2025 15:26	vial A pH<2	JC\MD	Ok
12	Q3756-05	MW-04-12-120225	VN088447.D	04 Dec 2025 15:47	vial A pH<2	JC\MD	Ok
13	Q3756-07	MW-13B-47.5-120225	VN088448.D	04 Dec 2025 16:07	vial A pH<2	JC\MD	Ok
14	Q3757-12	TB01-120325	VN088449.D	04 Dec 2025 16:28	vial A pH<2 TB	JC\MD	Ok
15	Q3757-11	EB01-120325	VN088450.D	04 Dec 2025 16:48	vial A pH<2 EB	JC\MD	Ok,M
16	Q3757-01	MW-14A-17.5-120325	VN088451.D	04 Dec 2025 17:09	Need Straight Run	JC\MD	Not Ok
17	Q3757-03	BR-03D-490-120325	VN088452.D	04 Dec 2025 17:29	Need Straight Run	JC\MD	Not Ok
18	Q3757-05	MW-14B-46-120325	VN088453.D	04 Dec 2025 17:50	Need Straight Run	JC\MD	Not Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM
SubDirectory	VN120425	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136506,VP136507		

19	Q3757-07	RMW-05B-90.5-120325	VN088454.D	04 Dec 2025 18:10	Need Straight Run	JC\MD	Not Ok
20	Q3757-09	OW-05B-72-120325	VN088455.D	04 Dec 2025 18:31	Need Straight Run	JC\MD	Not Ok
21	Q3750-07	FENCE WC-1	VN088456.D	04 Dec 2025 18:51	vial B pH#5.0	JC\MD	Ok
22	Q3750-08	FENCE WC-2	VN088457.D	04 Dec 2025 19:11	vial B pH#5.0	JC\MD	Ok
23	PB170809TB	PB170809TB	VN088458.D	04 Dec 2025 19:32		JC\MD	Ok
24	Q3775-01	NGKO	VN088459.D	04 Dec 2025 19:52	Need Straight Run	JC\MD	Not Ok
25	IBLK	IBLK	VN088460.D	04 Dec 2025 20:13		JC\MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VN088461.D	04 Dec 2025 20:33		JC\MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q3756	OrderDate:	12/3/2025 9:25:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	A11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3756-01	OW-04B-26.5-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-03	BR-01-190-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-05	MW-04-12-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-07	MW-13B-47.5-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-09	EB01-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/03/25	12/02/25
Q3756-10	TB01-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/03/25	12/02/25
Q3756-10RE	TB01-120225RE	Water	VOCMS Group3	8260-Low	12/02/25		12/03/25	12/02/25